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*Marking Gunner* [SS 12326 to 12388.]

[Issued with Army Orders, dated 1st September, 1904.]

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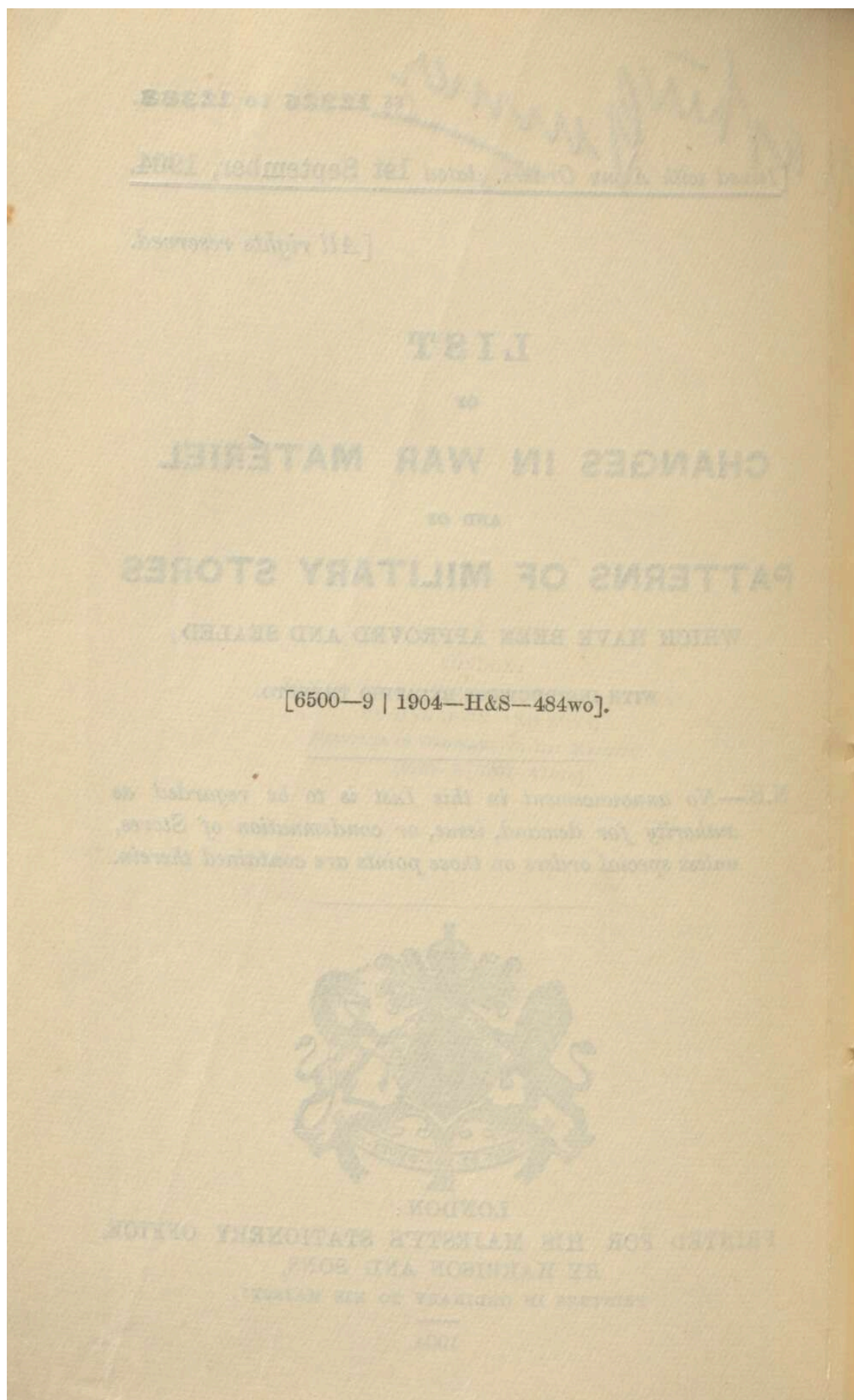
LIST  
OF  
CHANGES IN WAR MATÉRIEL  
AND OF  
PATTERNS OF MILITARY STORES  
WHICH HAVE BEEN APPROVED AND SEALED;  
WITH INSTRUCTIONS RELATING THERETO.

N.B.—No announcement in this List is to be regarded as authority for demand, issue, or condemnation of Stores, unless special orders on those points are contained therein.



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Locks { electric—		
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2. Nomenclature.		



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2. Nomenclature.		
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Lever, breech mechanism—		
Holes for axis pin and actuating link to be bushed.		
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2. Nomenclature.		
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863 1st September, 1904.

[§§ 12326 to 12388.]

## (WEEDON SECTION.)

12326.—Case, 200 scabbards,  
 sword - bayonet,  
 pattern 1903. (Mark I.) C Wood, with fittings;  
 also for 220 scabbards,  
 sword-bayonet, pattern  
 1888.

## Use extended to Naval Service.

With reference to § 11849:—The use of the case therein described having been extended to Naval Service, the nomenclature and distinguishing letter have been altered as shown above.

21st June 1904.

57

Gen. No.

5556

12327.—Cover, tin, mineral jelly,  
 3-oz. (Mark II.) .. C Canvas, with stud.

With reference to §§ 11950 and 12186:—A pattern of the above-mentioned article has been sealed to govern future manufacture.

8th July 1904.

84

D

2945

It differs from the Mark I. pattern, described in the above-quoted paragraphs in the following manner:—

The back and bottom are formed in one piece and the loop is made broader.

12328.—Sword, practice,  
 gymnasia, pattern  
 1904. (Mark I.) .. L Without scabbard.

A pattern of the above-mentioned sword has been sealed to govern future manufacture.

25th March 1904.

77

26

3294

It differs from the pattern 1899 (§ 9984) in being slightly stiffer in the blade, and the hilt is not perforated.

With a weight of  $2\frac{1}{2}$  lb. placed in the guard the blade should recover straightness, and with a weight of 4 lb. placed in the guard the blade should give way.

(484)

A



864

## (WOOLWICH SECTION, No. 1.)

12329.—Bag, spare, field kit.  
(Mark I.) .. .. L Tan duck.

1st March 1904.

40116

7739

A pattern of the above-mentioned bag has been sealed to govern future manufacture.

It is made from duck, dyed with "Cutch," and fitted with a handle of same material, two leather straps and two leather chapés, each fitted with a  $\frac{3}{4}$  inch brass buckle.

It is of the following dimensions, viz.:—

	Depth.	Width.	Length.
	inches.	inches.	inches.
Front .. .. .	9	12½	..
Back and flap .. .. .	16	12½	..
Gusset .. .. .	..	3	41

The bag will be issued to troops when stock of "Valises patterns 1882 or 1888," "Wallets," and "Bags, kit, R.A.," are used up.

## (WOOLWICH SECTION, No. 3.)

12330.—Stove, oil, Rippingille,  
No. 63 .. .. .

Paraffin oil, officers' ward, hospital pattern, field service "ABC"; 17½ inches by 12 inches by 15½ inches, with 1 dish, 1 frying pan, 1 gridiron, 1 lifting hook, 1 kettle, 2 lamps, 1 saucepan, 1 toast hanger, 1 shelf, 1 tray, and 1 steamer.

## Alteration and addition.

13th April 1904.

57

Egypt

151

With reference to §§ 5584 and 11115:—The following altera-



865

tions to the above stove have been approved for future supplies, viz. :—

Drop handles fitted to the ends instead of fixed handles, and a shelf added to the oven.

No alteration to "Mark" of stove will be made.

(WOOLWICH SECTION, No. 4.)

### 12331.—Carts—

Forage.

Maltese.

Water tank.

Draught chains fitted with hooks.

In future manufacture, carts of the above-mentioned descriptions will have the draught chains fitted with hooks, instead of loops as hitherto, in order that the No. 10A or No. 3A swingle-trees (§ 12333) may be used.

Existing carts not fitted with a hook will use the S draught hook (§ 10979) in conjunction with the above-mentioned swingle-trees.

27th Feb. 1904.

71

1

3302

11th Feb. 1904.

14th March 1904.

57

Gen. No

4379

### 12332.—Forges, field—

Troughs, water	{	iron ..	G.S.; iron frame; and
		wood ..	R.A., Mark II.
			G.S.; wood frame.

Obsolete.

With reference to § 11898:—The above-mentioned troughs not being required with field forges are declared obsolete, and will be withdrawn from all G.S. and R.A. field forges, and brought to produce locally.

22nd July 1904.

57

Gen. No

5683

(484)

1899

A 2



866

(WOOLWICH SECTIONS NOS. 4 AND 13.)

12333.—Pole, draught, No. 7A.

(Mark I.) .. ..

Wood, length over all,  
10 feet 10½ inches;  
Wagons:—Ambulance  
(except Mark III., con-  
verted office telegraph,  
and light supply);  
General service (except  
Marks III. and V.,  
heavy spring, and con-  
verted pharmacy);  
Ammunition and store,  
R.A. (except Mark II.),  
and all R.E. pole-  
draught wagons.

Swingletree, No. 10A.

(Mark I.) .. ..

Steel. Limbers:—B.L.  
field; Q.F. 15-pr., 12½-  
pr. Mark I., and 1-pr.;  
Q.F. 4·7-inch travel-  
ling; Cavalry or  
Mounted Infantry  
Maxim; Wagon,  
S.A.A.; Carts, forage  
and Maltese; Car-  
riages, machine gun,  
Infantry Maxim,  
Marks II. to III.; also  
Wagons — Artillery;  
Ammunition and store,  
R.A.; General service;  
Ambulance; and all  
R.E. pole - draught  
vehicles.

Swingletree, No. 3A.

(Mark I.) .. ..

Wood.

Modifications to suit R.A. and G.S. or  
A.S.C. harness.

11th Dec. 1903.

10th May 1904.

57

Gen. No.

4379

11th July 1903.

11th Dec. 1903.

3561

To assimilate the draught fittings of G.S. and ambulance  
vehicles to suit R.A. quick release harness (§ 9652), the modifi-  
cations detailed below will be made to the Nos. 7 and 7A poles,  
and No. 3 swingletree.

- (1.) The No. 7 pole will be fitted with two chains of three  
links each, and a leather strap, the latter to secure  
the chains to the pole head when not in use. Poles  
so fitted will be known as No. 7A and so stamped.
- (2.) The No. 7A pole will be fitted with a leather strap  
to secure the chains to the pole head when not in  
use.



867

- (3.) The No. 3 swingletree will have the existing links removed, and a cranked link and split link added to each end, and a link to the centre hook. Swingle-trees so fitted will be known as No. 3A and so stamped.

As soon as the existing stock of No. 3 and No. 3A swingletrees have been used up, they will be regarded as obsolete, the No. 10A swingletree being used in their place.

Such vehicles as may be fitted with loops in which the swingletrees are hooked will use the S-hooks (§ 10979) when using Nos. 10A or 3A swingletrees.

These modifications will be carried out to poles and swingle-trees in the Ist, IIInd, and IIIrd Army-Corps, locally, as follows, the undermentioned stores being supplied to officers concerned on demand :—

*No. 7 pole.*

In accordance with instructional print, R.C.D. No. 1110.

*No. 7A pole.*

In accordance with the accompanying drawing, Fig. 1 (page 868).

*Swingletree, No. 3.*

In accordance with the accompanying drawing, Fig. 2 (page 869), and the following instructions :—

- (a.) Place the link (D) over the hook, and close in the point of the hook as shown.
- (b.) Remove the existing links at each end, and insert the cranked link (C) (which should be scarfed for welding) and the split link (B).

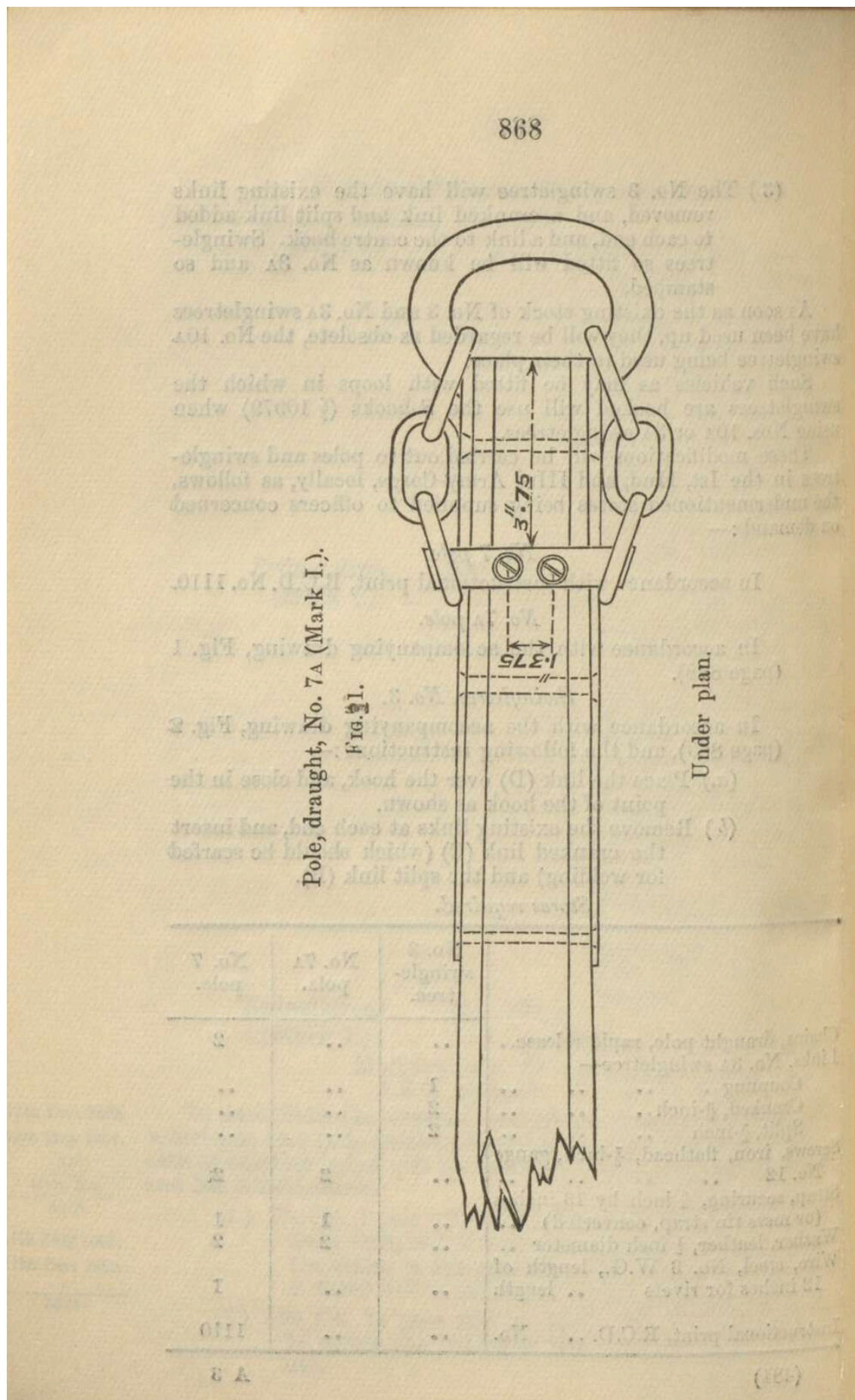
*Stores required.*

	No. 3 swingle- tree.	No. 7A pole.	No. 7 pole.
Chains, draught pole, rapid release..	..	..	2
Links, No. 3A swingletree—			
Coupling.. ..	1	..	..
Cranked, $\frac{3}{8}$ -inch.. ..	2	..	..
Split, $\frac{3}{8}$ -inch .. ..	2	..	..
Screws, iron, flathead, $\frac{7}{8}$ -inch, gauge			
No. 12 .. ..	..	2	2
Strap, securing, $\frac{3}{4}$ inch by 13 inches			
(or mess tin strap, converted) ..	..	1	1
Washer, leather, $\frac{1}{2}$ inch diameter ..	..	2	2
Wire, steel, No. 3 W.G., length of			
12 inches for rivets .. length	..	..	1
Instructional print, R.C.D. .. No.	..	..	1110

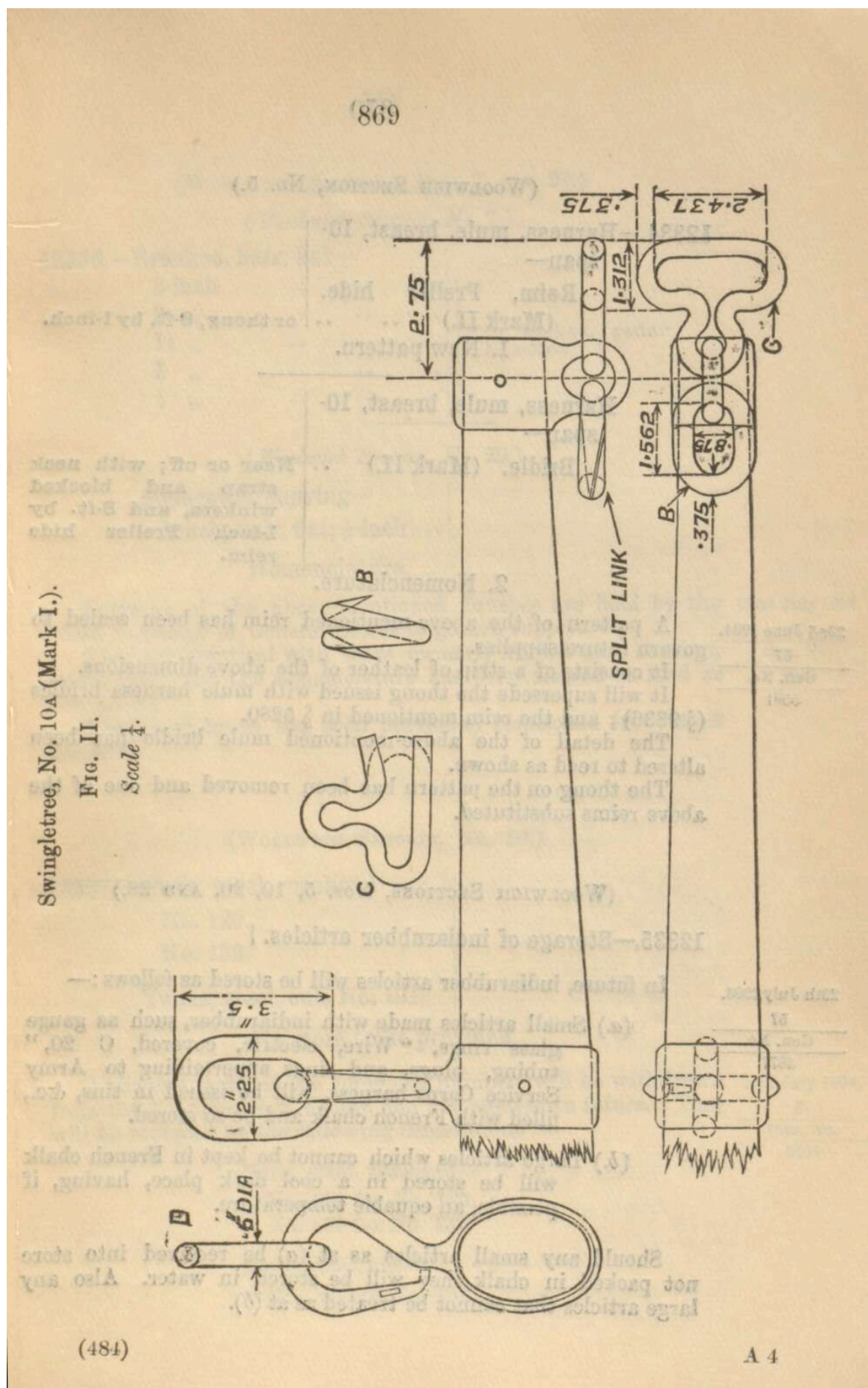
(484)

A 3









870

(WOOLWICH SECTION, No. 5.)

12334.—Harness, mule, breast, 10-  
span—

Reim, Preller hide.

(Mark II.) .. .. or thong, 8-ft. by 1-inch.

1. New pattern.

Harness, mule, breast, 10-  
span—

Bridle. (Mark II.) ..

Near or off; with neck  
strap and blocked  
winkers, and 8-ft. by  
1-inch Preller hide  
reim.

2. Nomenclature.

22nd June 1904.

57

Gen. No.

5591

A pattern of the above-mentioned reim has been sealed to govern future supplies.

It consists of a strip of leather of the above dimensions.

It will supersede the thong issued with mule harness bridles (§ 9836); and the reim mentioned in § 5280.

The detail of the above-mentioned mule bridle has been altered to read as shown.

The thong on the pattern has been removed and one of the above reims substituted.

(WOOLWICH SECTIONS, Nos. 5, 10, 20, AND 28.)

12335.—Storage of indiarubber articles. |

29th July 1903.

57

Gen. No.

3877

In future, indiarubber articles will be stored as follows:—

(a.) Small articles made with indiarubber, such as gauge glass rings, "Wire, electric, covered, C 20," tubing, plugs, and rings appertaining to Army Service Corps harness, will be issued in tins, &c., filled with French chalk and be so stored.

(b.) Large articles which cannot be kept in French chalk will be stored in a cool dark place, having, if possible, an equable temperature.

Should any small articles as at (a) be received into store not packed in chalk they will be stored in water. Also any large articles that cannot be treated as at (b).



871

## (WOOLWICH SECTIONS, NOS. 7 AND 23.)

## (Woolwich Section, No. 7.)

## 12336.—Brushes, hair, flat—

3-inch	..	..	..	} Tin socket, cedar handles.
2 "	..	..	..	
1½ "	..	..	..	
1 "	..	..	..	
½ "	..	..	..	

## (Woolwich Section, No. 29.)

## Apparatus, copying—

Brush, hair, flat, ½-inch ..

## Nomenclature.

Patterns of the above-mentioned brushes are held by the Chief Inspector of General Stores to govern supply.

They are identical with those formerly known as "Brushes, camel hair," but the nomenclature has been altered to read as now shown.

The ½-inch brush has been previously mentioned in §§ 4589 and 8149.

22nd July 1904.

57

Gen. No.

5610

## (WOOLWICH SECTION, No. 10.)

## 12337.—Nails, steel, rosehead—

No. 129.

No. 132.

Tacks, steel, cut, No. 191.

No more to be provided.

Nails and tacks of the foregoing numbers will be withdrawn from the Vocabulary of Stores, and not stocked in future. They will be replaced by the following descriptions:—

25th July 1904.

57

Gen. No.

5654

Nails, steel, rosehead—

No. 128 for No. 129.

No. 131 for No. 132.

Nails, steel, cut—

No. 197 for No. 191.



872

(WOOLWICH SECTION, No. 13.)

## 12338.—Limbers, field, B.L.—

12-pr. 6 cwt... .. L

15-pr. .. .. L

Wagons, ammunition,  
B.L.—

12-pr. 6 cwt... .. L

15-pr. .. .. L

Futchels and sides strengthened.

13th Nov. 1903.

54

Artillery

1518

In future manufacture, the futchels and sides of limbers and wagons of the above-mentioned descriptions will not be provided with lightening holes as hitherto.

Existing limbers and wagons when passing through the Ordnance Factories for repair, will have the futchels and sides replaced by others without lightening holes, as may be found necessary.

## 12339.—Limber, field, Q.F., 15-pr.

(Mark I.) .. .. L

Lid stays strengthened and guard plates fitted.

16th Feb. 1904.

71

1

3108

The lid stays of limbers of the above-mentioned description (§ 10726) will be replaced by stays of a strengthened pattern, as the existing ones become unserviceable, and the box will be fitted with guard plates to prevent the lid stays fouling the vertical strengthening stays on the box.

This service will be carried out locally, in accordance with instructional print, R.C.D. No. 1145, which, together with the undermentioned stores, will be supplied to officers concerned on demand :—

Stores required per limber.

	No.
Brackets, guide, lid stay ....	2
Plate, guard stay { near....	1
{ off ....	1
Stay, lid .... { near....	1
{ off ....	1
Rivets, steel, boss head, $\frac{3}{16}$ inch by $\frac{1}{2}$ inch ....	14



873

12340.—Wagons, ammunition,	
Q.F., 15-pr. (Mark I.)	L
Limbers, field, Q.F.,	
15-pr. (Mark I.) ..	L

## Removal of back rests.

The back rests of the seats on the top of vehicles of the above-mentioned description (§ 10726) will be removed. 18th July 1904.

This service will be carried out locally, in accordance with the accompanying drawings (pages 874, 875) and instructions detailed below:—

71

1

3353

*Instructions.*

- (1.) Cut through the angle steel at A and B (Fig. 1) with a "Saw, cutting metal," or chisel; take out the rivets marked *a*; remove the back rests and gussets, and cut away the portion of the angle steel marked *b*.
- (2.) Prepare and fit the angle steel pieces as shown (Figs. 2 and 3), care being taken to prepare the pieces for right and left sides respectively.
- (3.) Holes in angle pieces to be drilled at station, to suit existing holes in vehicles, where possible.

For this purpose, the undermentioned stores will be supplied to officers concerned on demand:—

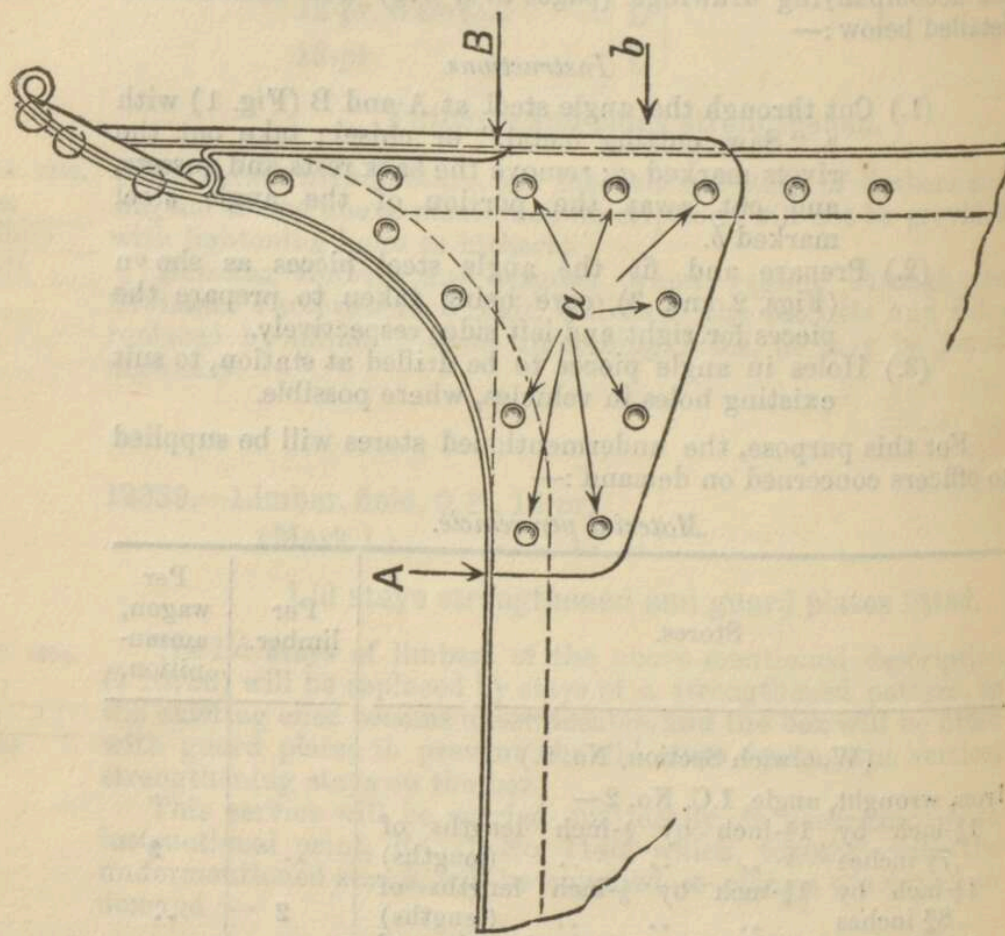
*Material per vehicle.*

Stores.	Per limber.	Per wagon, ammunition.
(Woolwich Section, No. 9.)		
Iron, wrought, angle, I.C. No. 2—		
1½-inch by 1½-inch by ½-inch lengths of 7½ inches .. .. (lengths)	..	2
1½-inch by 1½-inch by ½-inch lengths of 8¾ inches .. .. (lengths)	2	..
¾-inch by ¾-inch by ½-inch lengths of 2¾ inches .. .. (lengths)	..	2*
¾-inch by ¾-inch by ½-inch lengths of 3¼ inches .. .. (lengths)	2*	..
(Woolwich Section, No. 13.)		
Rivets, steel, boss head, ¼-inch by ½-inch.. ..	24	24

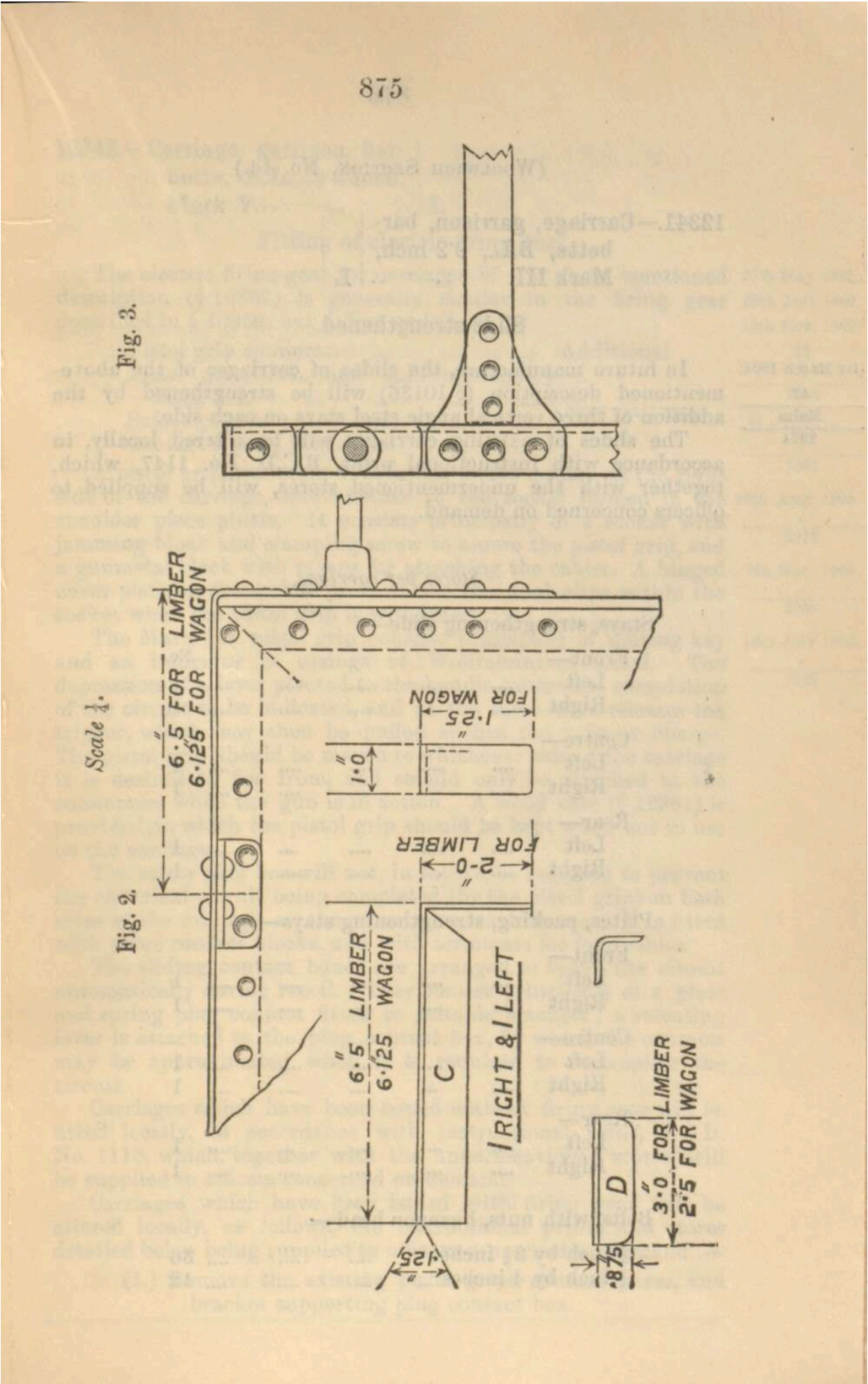
\* ¼ inch in length allowed for adjustment.

Material will be obtained locally for plugging holes, for which rivets are not supplied.

Scale  $\frac{1}{4}$ .  
Fig 1. (See § 12340.)







876

(WOOLWICH SECTION, No. 14.)

12341.—Carriage, garrison, bar-  
bette, B.L., 9·2-inch,  
Mark III. .. .. L

Slide strengthened.

1st March 1904.

57

Malta

2924

In future manufacture, the slides of carriages of the above-mentioned description (§ 10136) will be strengthened by the addition of three vertical angle steel stays on each side.

The slides of existing carriages will be altered locally, in accordance with instructional print, R.C.D. No. 1147, which, together with the undermentioned stores, will be supplied to officers concerned on demand.

*Stores per carriage.*

## Stays, strengthening slide—

	No.
Front—	
Left .....	1
Right .....	1
Centre—	
Left .....	1
Right .....	1
Rear—	
Left .....	1
Right .....	1

## Plates, packing, strengthening stays—

Front—	
Left .....	1
Right .....	1
Centre—	
Left .....	1
Right .....	1
Rear—	
Left .....	1
Right .....	1

## Bolts, with nuts, hexagon head—

$\frac{3}{4}$ inch by $3\frac{1}{8}$ inches .....	36
$\frac{1}{8}$ inch by 4 inches....	12



12342.— Carriage, garrison, bar-  
 bette, B.L., 9'2-inch,  
 Mark V... .. L

### Fitting of electric firing gear.

The electric firing gear for carriages of the above-mentioned description (§ 10867) is generally similar to the firing gear described in § 10939, but differs as follows :—

Pistol grip connectors	....	....	....	Additional.	27th May 1902.
Pistol grip, B.L. and Q.F. carriages,					25th July 1902.
Mark III.	....	....	....		19th Nov. 1902.
Safety plug box	....	....	....	} New patterns.	
Contact sliding boxes	....	....	....		
					<b>71</b>
					1
					2104
					31st Oct. 1901.
					1067

A pistol grip connector is attached to the holder on the right side of the carriage, and another to the socket formed in the shoulder piece pintle. It consists principally of a socket with jamming block and clamping screw to secure the pistol grip, and a gunmetal block with means for attaching the cables. A hinged cover plate on the socket protects the terminal clips within the socket when the pistol grip is withdrawn.

The Mark III. pistol grip consists principally of a firing key and an indicator in casings of Wolframium metal. The depression of a lever pivoted to the handle causes the completion of the circuit to be indicated, and at the same time releases the trigger, which may then be pulled to fire the tube or charge. The pistol grip should be moved to whichever side of the carriage it is desired to fire from, and should only be attached to the connectors when the gun is in action. A wood case (§ 12351) is provided, in which the pistol grip should be kept when not in use on the carriage.

The safety plug box will not, in future, be required to prevent the electrical circuit being completed (by the pistol grip) on both sides of the carriage at the same time, as hitherto. It is fitted with three contact blocks, and with terminals for four cables.

The sliding contact boxes are arranged to break the circuit automatically during recoil. They consist principally of a plate and spring plug contact fitted to suitable brackets; a releasing lever is attached to the plug contact box, by which the contacts may be approximated when it is required to recomplete the circuit.

Carriages which have been issued without firing gear will be fitted locally, in accordance with instructional print, R.C.D. No. 1113, which, together with the undermentioned stores, will be supplied to officers concerned on demand.

Carriages which have been issued with firing gear will be altered locally, as follows, the instructional prints and stores detailed below being supplied to officers concerned on demand :—

- (1.) Remove the existing pistol grips, contact boxes, and bracket supporting plug contact box.

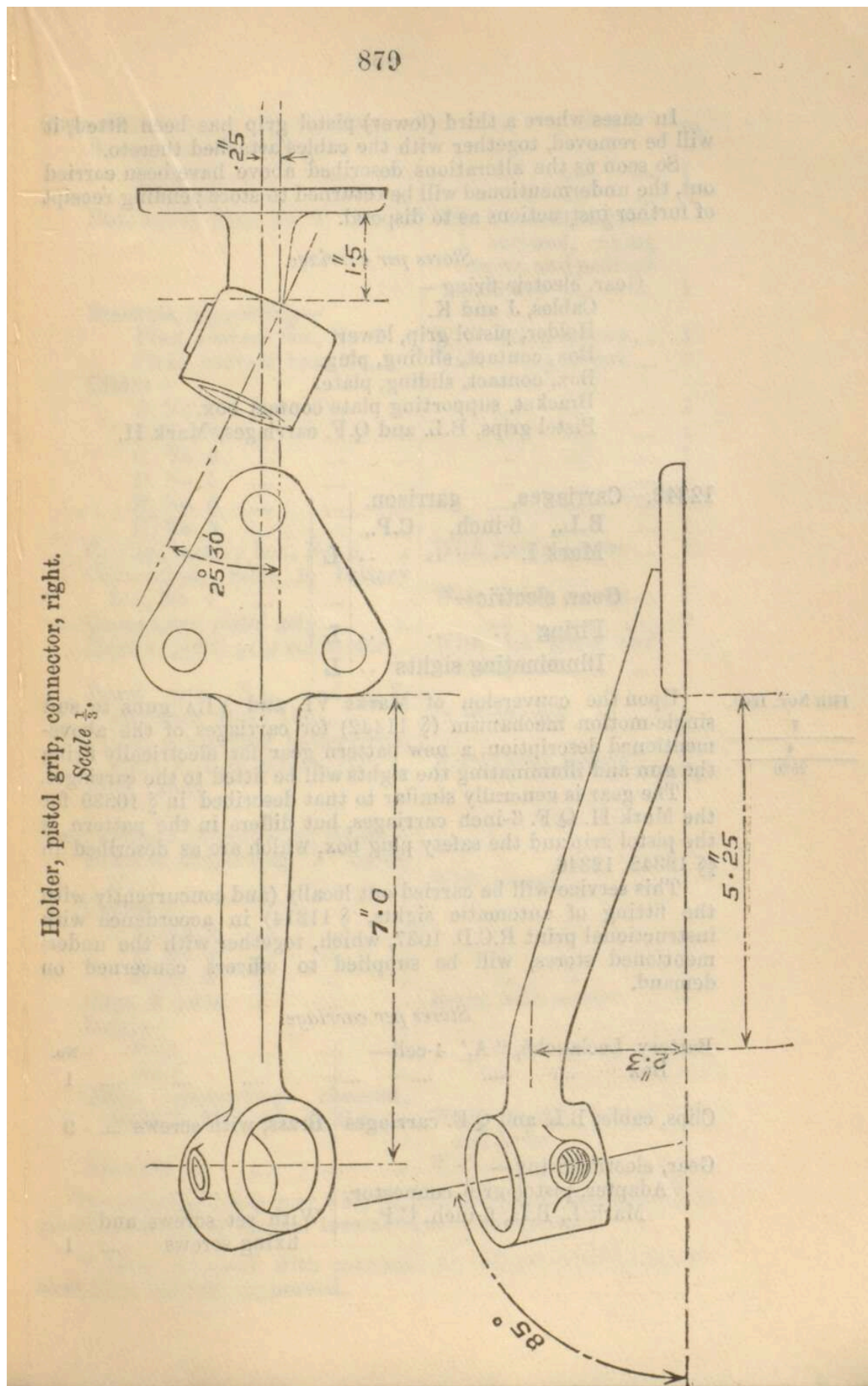


- (2.) Alter the shape of the holder on the right side, in accordance with the accompanying drawing (page 879). If the existing holder cannot be altered to the dimensions shown, a new holder must be demanded.
- (3.) Attach one pistol grip connector to the holder and the other to the socket on the shoulder piece pintle.
- (4.) Fit the plugs supplied to the holes in the safety plug box in accordance with instructional print, R.C.D. No. 1120, care being taken that the coned plugs and holes are quite clean before insertion.
- (5.) Fit the sliding contact boxes in accordance with instructional print, R.C.D. No. 1128.

*Stores per carriage.*

	Issued with firing gear.	Issued without firing gear.
Battery, Leclanché, "A," 4-cell—		
Box .. .. .	..	1
Cells, electric, Leclanché, "A," Mark III.	..	4
Clips, cable, B.L. and Q.F. carriages ..	..	32
Gear, electric firing—		
Box, safety plug, No. 1 .. .. .	..	1
Plug, coned .. .. .	2	..
Plug, screwed .. .. .	1	..
Box, contact, sliding—		
Plug, No. 2 .. .. .	1	1
Plate, No. 2 .. .. .	1	1
Bracket, supporting—		
Plate, contact box, No. 1 .. .. .	..	1
Plug, contact box, No. 5 .. .. .	1	1
Cables—		
A, No. 2 .. .. .	..	1
B „ 2 .. .. .	..	1
C „ 2 .. .. .	..	1
D „ 2 .. .. .	..	1
E „ 2 .. .. .	..	1
H „ 2 .. .. .	..	1
Carrier, battery box, No. 2 .. .. .	..	1
Connection, cable to battery box,		
No. 1 .. .. .	..	1
Connectors, pistol grip .. .. .	2	2
Holder, pistol grip connector .. .. .	..	1
Pistol grip, B.L. and Q.F. carriages,		
Mark III. .. .. .	1	1
Plug, safety .. .. .	..	1
Instructional prints, R.C.D. .. Nos. {	1120 1128	} 1113







In cases where a third (lower) pistol grip has been fitted, it will be removed, together with the cables attached thereto.

So soon as the alterations described above have been carried out, the undermentioned will be returned to store pending receipt of further instructions as to disposal.

*Stores per carriage.*

Gear, electric firing—  
 Cables, J and K.  
 Holder, pistol grip, lower.  
 Box, contact, sliding, plug.  
 Box, contact, sliding, plate.  
 Bracket, supporting plate contact box.  
 Pistol grips, B.L. and Q.F. carriages, Mark II.

12343.—Carriages, garrison,	
B.L., 6-inch, C.P.,	
Mark I. .. .. .	L
Gear, electric—	
Firing .. .. .	L
Illuminating sights ..	L

14th Nov. 1900.

7
4
2526

Upon the conversion of Marks VI. and VI.A guns to suit single-motion mechanism (§ 11442) for carriages of the above-mentioned description, a new pattern gear for electrically firing the gun and illuminating the sights will be fitted to the carriages.

The gear is generally similar to that described in § 10939 for the Mark II. Q.F. 6-inch carriages, but differs in the pattern of the pistol grip and the safety plug box, which are as described in §§ 12342, 12346.

This service will be carried out locally (and concurrently with the fitting of automatic sights, § 11214) in accordance with instructional print R.C.D. 1037, which, together with the under-mentioned stores, will be supplied to officers concerned on demand.

*Stores per carriage.*

Battery, Leclanché, "A," 4-cell—	No.
Box .....	1
Clips, cable, B.L. and Q.F. carriages	9
Gear, electric firing—	
Adapter, pistol grip connector,	
Mark I., B.L., 6-inch, C.P. ....	1
With set screws and	
fixing screws .....	



881

Gear, electric firing ( <i>continued</i> )—				No.
Boxes, contact, sliding—				
Plug, No. 1 ...	....	....	....	1
Plate, No. 1 ...	....	....	....	1
Box, safety plug, No. 2 ...	....	....	With 1 coned plug and 1 screwed, fixing screws, and padlock with key ...	1
Brackets, supporting—				
Plug, contact box, No. 2 ..	....	....	With fixing screws ...	1
Plate, contact box, No. 2 ..	....	....	With fixing screws ...	1
Cables—				
A, No. 9 ...	....	....	....	1
B, No. 9 ...	....	....	....	1
C, No. 6 ...	....	....	....	1
D, No. 5 ...	....	....	....	1
E, No. 6 ...	....	....	....	1
H, No. 9 ...	....	....	....	1
Carrier, battery box, No. 8 ...	....	....	With fixing screws ...	1
Connection, cable to battery box, No. 4 ...	....	....	With fixing screws ...	1
Connectors, pistol grip ...	....	....	....	2
Holder, pistol grip connector ..	....	....	With set screw and fixing bolts ...	1
Pistol grip, B.L. and Q.F. carriages, Mark III. ....	....	....	In wood case ...	1
Plates, supporting battery box, Mark I, B.L., 6-inch, C.P. ...	....	....	With fixing screws ...	2
Plug, safety ...	....	....	....	1†
Gear, electric, illuminating sights—				
Bracket, supporting "Z" cable, No. 1 ...				
....	....	....	With screws ...	1
Cables—				
X, No. 6 ...	....	....	....	1
Y, No. 2 ...	....	....	....	1
Z, No. 5 ...	....	....	....	1
Clips, Z cable ...	....	....	Brass, with screws ...	4
Lamps—				
Fore ...	....	....	....	1
Hind ...	....	....	....	1
Plate, supporting rheostat, Mark I, B.L., 6-inch, C.P. ...	....	....	With fixing screws and bolts ...	1
Rheostat ...	....	....	With fixing screws ...	1

The existing firing gear will, on removal, be returned to store pending receipt of further instructions as to disposal.

† Only required with carriages for which position-finders have been specially approved.



13th July 1904. 12344.—Carriages, garrison—

71	B.L., 6-inch, C.P.,	
1	Marks I. and II. ..	L
3505	Q.F., 6-inch, Marks I.	
	and II. .. ..	L

## Alteration to tank.

With reference to § 11507:—

- (1.) The B.L. 6-inch C.P. Mark I. carriages will be fitted with a steel packing plate in accordance with Fig. 1 of the annexed drawing (page 883), and not in accordance with the drawing accompanying § 11507.
- (2.) The packing plates for tanks of 6-inch Q.F. Marks I. and II., and B.L. 6-inch C.P. Mark II., carriages will be secured by a fixing screw in accordance with Fig. 2 of the accompanying drawing.

These services will be carried out locally, the undermentioned plate and screw being supplied to officers concerned on demand.

*Stores per carriage.*

	Carriages, garrison, 6-inch.	
	Q.F., Marks I. & II. — B.L.C.P., Mark II.	B.L.C.P., Mark I.
Plate, packing, tank ; steel ..	..	1
Screw, securing, plate packing tank	1	..

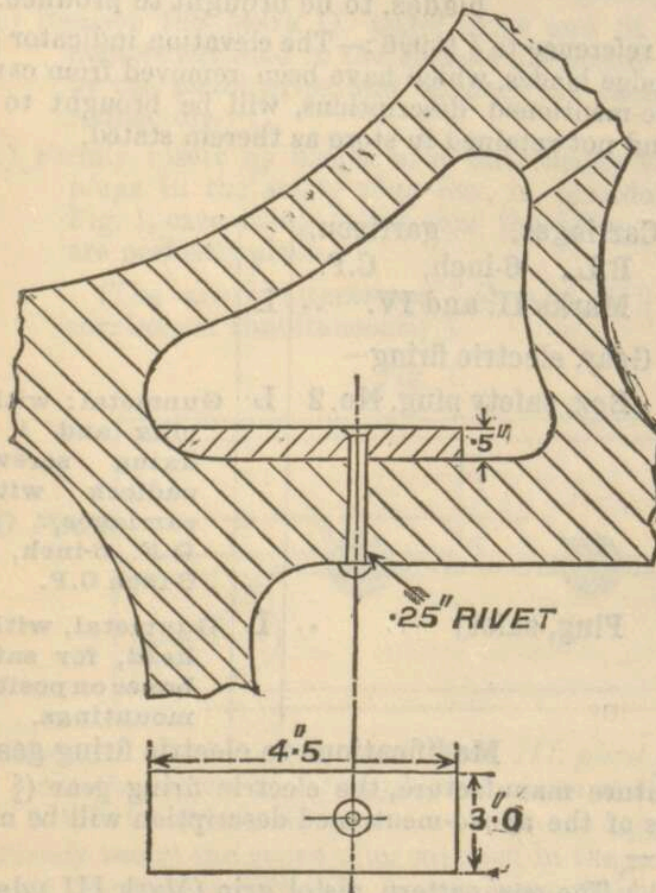


883

Carriages, garrison, B.L., 6-inch, C.P., Mark I.

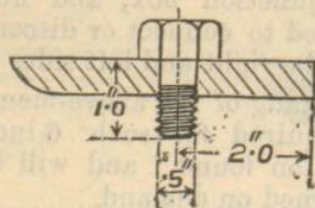
Scale  $\frac{1}{4}$ .

FIG. 1.



Carriages, garrison, B.L., 6-inch, C.P., Mark II., and Q.F., 6-inch.

FIG. 2.





884

## 12345.—Carriages, garrison—

B.L., 6-inch, C.P., Marks I. and II...	L
Q.F., 6-inch, Marks I. and II. .. ..	L

Elevation indicator gear, and straight-edge blades, to be brought to produce.

2nd July 1904.

57

Devonport

8625

With reference to § 10996 :—The elevation indicator gear, and straight-edge blades, which have been removed from carriages of the above-mentioned descriptions, will be brought to produce locally, and not retained in store as therein stated.

## 12346.—Carriages, garrison,

B.L., 6-inch, C.P., Marks II. and IV. ..	L
---	---

Gear, electric firing—

Box, safety plug, No. 2	L
-------------------------	---

Gunmetal; with 1 coned plug and 1 screwed, fixing screws, and padlock with key; carriages, garrison, Q.F. 6-inch, and B.L. 6-inch C.P.

Plug, safety .. ..	L
--------------------	---

Gunmetal, with ebonite head, for safety plug boxes on position found mountings.

Modifications to electric firing gear.

27th May 1902.

19th Nov. 1902.

21st Feb. 1903.

In future manufacture, the electric firing gear (§ 10939) for carriages of the above-mentioned description will be modified as follows :—

71

1

2104

- (1.) The new pattern pistol grip (Mark III.) described in § 12342 will supersede the Mark II. pistol grip, and its use will be governed by the conditions therein laid down.
- (2.) Consequent upon the introduction of the Mark III. pistol grip, the No. 2 safety plug box will be used as a junction box, and no safety plug will be required to connect or disconnect the circuit to or from the right and left sides of the carriage.
- (3.) A safety plug of the above-mentioned description will be required for such 6-inch mountings as are "position found," and will be supplied to officers concerned on demand.



Consequent on the foregoing, the details appended to the nomenclature of the No. 2 safety plug box have been amended as shown above.

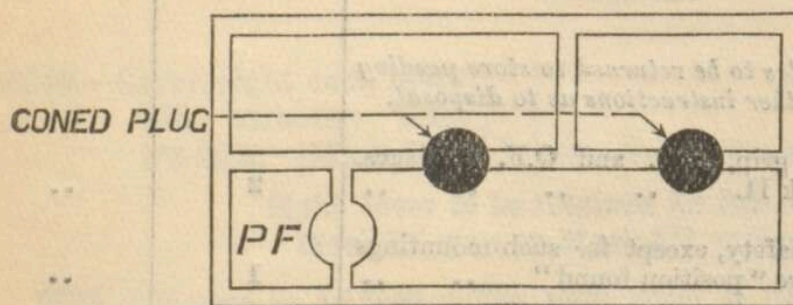
The electric firing gear on existing mountings will be altered locally as follows, the undermentioned stores being supplied to officers concerned on demand :—

*Carriages which are fitted with Mark II. pistol grips.*

- (a.) Remove the Mark II. pistol grips and fit the connectors supplied in the sockets previously occupied by the pistol grips, and connect the cables to the connectors.
- (b.) Firmly insert by means of a screwdriver the coned plugs in the safety plug box, in accordance with Fig. 1, care being taken that the holes and plugs are perfectly clean.

(The above alterations [ (a) and (b) ] must be carried out simultaneously.)

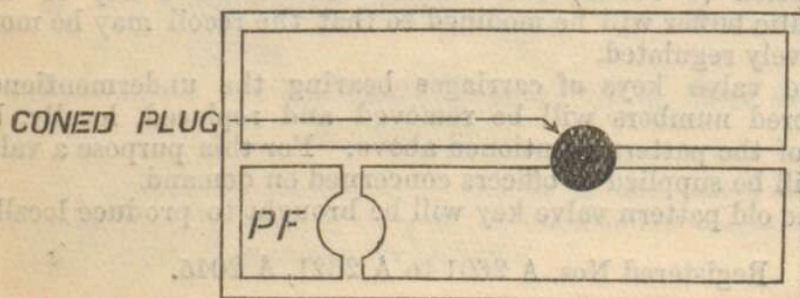
Fig. 1.



*Carriages which are fitted with Mark III. pistol grip and with the pattern of safety plug box shown at Fig. 2, but without a coned plug.*

Firmly insert the coned plug supplied in the safety plug box in accordance with Fig. 2, care being taken that the hole and plug are quite clean.

Fig. 2.





886

*Stores per carriage.*

	B.L. 6-inch C.P. Marks II. and IV. carriages with	
	Mark II. pistol grip.	Mark III. pistol grip.
Gear, electric firing—		
Pistol grip, B.L. and Q.F. carriages, Mark III. .. .. .	1	..
Connectors, pistol grip .. .. .	2	..
Box, safety plug, No. 2—		
Plugs, coned .. .. .	2	1
<hr/>		
<i>Articles to be returned to store pending further instructions as to disposal.</i>		
Pistol grip, B.L. and Q.F. carriages, Mark II. .. .. .	2	..
Plug, safety, except for such mountings as are "position found" .. .. .	1	..

12347.—Carriage, garrison, B.L.,  
6-inch, C.P., Mark IV. | L |

**Fitting of new pattern valve key.**

7th Dec. 1903.  
57  
Colchester  
5194

In future manufacture of carriages of the above-mentioned description (§ 10935) the contour of the valve key of the hydraulic buffer will be modified so that the recoil may be more effectively regulated.

The valve keys of carriages bearing the undermentioned registered numbers will be removed and replaced, locally, by those of the pattern mentioned above. For this purpose a valve key will be supplied to officers concerned on demand.

The old pattern valve key will be brought to produce locally.

Registered Nos. A 2601 to A 2621, A 2045.



887

12348.—Carriages, garrison, dis-  
appearing, B.L.,  
6-inch, Marks II. and  
IV. .. .. L

1. Sight pillars painted.

2. Cover to protect "Arm supporting telescope carrier."

With reference to § 11963 :—

1. The fore and tangent sight pillars of the sighting gear will be painted, and allowed to remain permanently on the mounting.

13th June 1904.

57

2. In order to protect the "Arm supporting telescope carrier," a wood cover will be provided and attached to the shield.

Portsmouth

5861

These services will be carried out, and the necessary material obtained, locally.

12349.—Cover, sight cam, Mark  
III. barbette, B.L.,  
9'2-inch. (Mark I.) .. L

Waterproof canvas.

Sight cover to be retained for B.L. 9'2-inch  
Mark IX. gun on Mark III. mountings.

With reference to § 12140 :—The sight cover (§ 10449) for the B.L. 9'2-inch Mark IX. gun on Mark III. mountings will continue to be used for the protection of the cam, and will not become obsolete as therein stated.

9th Aug. 1904.

57

Colchester

5445

12350.—Gear, electric—

Firing.

Illuminating sights.

Cables.. .. L

Pin connections to be of steel for future  
manufacture.

In future manufacture of cables of the above-mentioned description, the contact pins at the ends of the cables will be of steel, instead of gunmetal as hitherto.

2nd Feb. 1904.

57

Portsmouth

5790



888

## 12351.—Gear, electric firing—

Case, Mark III. pistol  
grip. (Mark I.) .. L Wood.

10th July 1903.

71

1

2925

A pattern of the above-mentioned case for the Mark III. pistol grip (§ 12342) has been approved to govern manufacture.

The body of the case is of deal, with a pine lid which is hinged and secured by two hooks and eyes; the interior is shaped to suit the pistol grip and fitted with protecting strips of felt.

The case will be used (as a packing case) for transit, and also to hold the pistol grip when the latter is not in use on the mounting.

*Dimensions, &c.*

Length (maximum) ...	....	....	....	12 $\frac{7}{8}$ inches.
Breadth (maximum) ...	....	....	....	9 $\frac{5}{8}$ inches.
Depth (maximum) ...	....	....	....	3 $\frac{3}{8}$ inches.
Weight (empty) ...	....	....	....	5 lb. 5 $\frac{1}{2}$ oz.
Tonnage ...	....	....	....	•006 ton.

## 12352.—Gyns, triangle—

Heavy .. .. L

Light .. .. L

1st July 1904.

84

R

2603

## Re-arrangement of nomenclature.

The nomenclature, and the details appended thereto, of "Gyns, triangle, heavy, light, and 16-ft.," have been re-arranged as follows:—

§ List of Changes.	Present	New		
	Designation.	Designation.	Service.	Detail.
7651	Gyns, triangle, heavy— Hydraulic. (Mark I.)	Gyns, triangle, heavy— Hydraulic, to raise 10 tons. (Mark I.)	L	Steel, without appur- tenances; 15-ft.
2895	<i>Tubular. (Mark II.)</i>	<i>Tubular, to raise 12 tons. (Mark II.)..</i>	L	Iron, without appur- tenances; 18-ft.
4923				
10997	Wood. (Mark III.)	Wood, to raise 12 tons. (Mark III.)	L	Without appur- tenances; 18-ft.
—	Gyns, triangle, light— Tubular—	Gyns, triangle, light— Tubular, to raise 7 tons—		
2895	(Mark II.).	(Mark II.) ..	L	Iron, without appur- tenances; 18-ft.
4923				
6909	(Mark III.).	(Mark III.) ..	L	Steel, without appur- tenances; 18-ft.



889

§ List of Changes.	Present	New		
	Designation.	Designation.	Service.	Detail.
—	Gyns, triangle, light— Wood. (Mark III.)	Gyns, triangle, light— Wood, to raise 7 tons. (Mark III.)	L	Without appur- tenances; 18-ft.
—	Gyns, triangle, 16-ft.— (Mark II.).	Gyns, triangle, light— To raise 3½ tons— (Mark II.) ..	L	Wood, without appur- tenances; 16-ft.
—	(Mark III.).	(Mark III.) ..	L	Wood, without appur- tenances; 16-ft.

## (WOOLWICH SECTION, No. 15.)

12353.—Carriages, field, Q.F.,  
1-pr., Marks I. and II. | L |

## Alteration to elevating nut.

The slot in the elevating nut of carriages of the above-mentioned description (§§ 10925, 11865) will be enlarged so that the jamming lever may more effectually compress the nut.

This service will be carried out locally in accordance with the accompanying drawing (page 890).

23rd July 1904.

73

4

4886

12354.—Carriage, mountain,  
Q.F., 2'95-inch, Mark  
I. .. .. . L |

## Alteration to lifting handles.

In future manufacture of carriages of the above-mentioned description (§ 10609), a lifting handle will be fitted to the rear of the trail, instead of one on each side as hitherto.

16th March 1903.

54

Artillery

320

## (WOOLWICH SECTIONS, Nos. 15, 17, 22, AND 24.)

12355.—Equipment, B.L., 9'45-  
inch howitzer .. .. L |

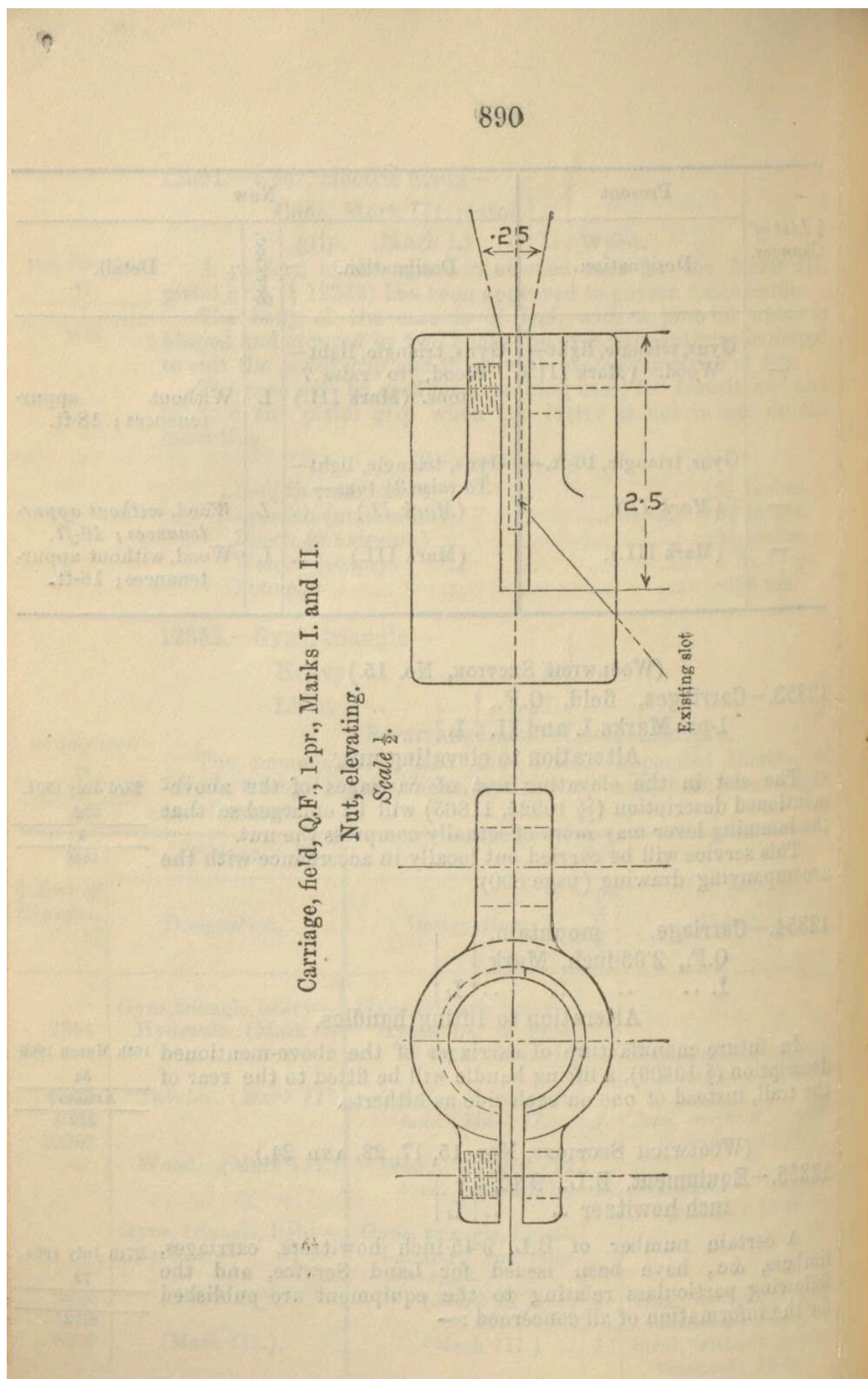
A certain number of B.L. 9'45-inch howitzers, carriages, limbers, &c., have been issued for Land Service, and the following particulars relating to the equipment are published for the information of all concerned:—

27th July 1904.

73

3

5173





(Woolwich Section, No. 17.)

Ordnance, B.L., 9.45-inch  
howitzer, Mark I. .... L | Steel, 42 cwt.

The chief particulars relating to the howitzer are as follows:--

Material	....	....	....	steel (nickel).
Length, total	....	....	....	92.55 inches.
Weight of howitzer with fittings	....	....	....	41 cwt. 2 qrs. 20 lb.
Bore ...	{ calibre	....	....	9.45 inches.
	{ length	....	....	75.75 inches.
	{ system	....	....	polygroove, plain section.
Rifling	{ length	....	....	69.4 inches (approximate).
	{ twist	....	....	uniform.
	{ grooves	{ number	....	56.
		{ width...	....	.4 inch.
		{ depth....	....	.06 inch.
Obturation	....	....	....	cup.
Firing mechanism	....	....	....	percussion.

The howitzer is without trunnions, and is made entirely of nickel steel. The breech ring at the rear is furnished on the under side with lugs for the attachment of the howitzer to the hydraulic buffer, and running-out spring rods, respectively, of the carriage. Brackets for the attachment of the carrier, and for retaining the carrier in the closed position, are fitted to the rear face of the breech, and secured by fixing screws.

A plane for clinometer is prepared on the upper side of the breech ring.

The chamber is cylindrical, slightly coned at the front end.

#### *Breech closing mechanism.*

The breech is closed by a parallel screw having three interruptions, and is locked by the sixth of a turn. Portions of the rear screw thread are prolonged into one of the interruptions on the breech screw, and form a stop for the latter when closing the breech.

Fitted to the outer end of the breech screw is a steel end plate having a fixed handle on the left side, and a breech mechanism lever hinged to the right side, by means of which the screw is worked. The lower end of the breech mechanism lever engages with a cam groove in the breech face of the howitzer, and is retained by a latch when in the locked position, thus preventing any movement during firing.

A steel carrier is hinged to the left side of the breech for supporting the breech screw when withdrawn. The carrier is retained in the closed position by means of a catch which engages with a bracket on the lower side of the breech face.



The catch is automatically released when the breech screw is withdrawn from the howitzer. A conical headed stop bolt serves to secure the breech screw on the carrier, when the whole can be swung clear of the breech opening to admit of loading.

Care must be taken not to withdraw the breech screw violently on to the carrier, as it is possible in that case to override the stop bolt, and thus cause damage to the front edge of the obturator cup when closing the breech.

#### *Obturation.*

17th March 1904.

72

8

4867

Obturation is obtained by means of a steel cup, which is fitted to the inner end of the breech screw, and secured in position by a spring catch. The catch is released by pressing a knob in the exterior of the breech screw.

The cup contains the charge and percussion primer, and practically forms a cartridge case. The charge and primer are inserted in the cup before the latter is placed in position in the breech screw.

#### *Firing mechanism.*

The firing mechanism is so arranged that the howitzer cannot be fired until the breech screw is locked, and the breech mechanism lever, home.

It consists of a steel cup fitted to the front face of the breech screw in which the charge is placed. A vent channel is formed in the stem of the cup, and is prepared at the rear end for the reception of a special percussion primer. Through the centre of the breech screw is fitted a striker for percussion firing. The striker is actuated by a mainspring, and is provided at the front end with a rebound spring, by means of which the point of the needle is retained clear of the primer in the vent when closing the breech. The outer end of the needle is curved, and engages with a projection on the sheath, forming a loop for the reception of the firing lanyard. The projection on the sheath serves to prevent the lanyard hook disengaging from the needle of the striker until the latter has been pulled the correct distance to the rear.

A lanyard guide is provided on the end plate of the breech screw so as to ensure a straight pull in a line with the axis of the howitzer.

A safety catch in the breech screw engages with a corresponding recess in the striker and retains the latter; the catch is automatically withdrawn from the striker by the last movement of the breech mechanism lever in closing the breech.

The following is a list of the component fittings and separate stores (exclusive of spare) issued with each howitzer:—



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*(31) Component fittings.*

Designation.	Detail.	No.
Ordnance, B.L., 9·45-inch howitzer, Mark I.:—		
Brackets—		
Hinge, carrier ..	} Steel, with 2 fixing screws .. {	1
Catch retaining carrier ..		1
Carrier .. .. .	Steel, with hinge bolt and set screw; retaining catch in two parts with spiral spring and keep pin; stop bolt for breech screw with spiral spring, nut, and keep pin; buffer spring, and cover plate with fixing screw .. .. .	1
Cup, obturator .. ..	Steel .. .. .	4
Screw, breech .. ..	Steel, with end plate, handle, and 6 fixing screws; lanyard guide stud with pulley, axis pin, collar, and keep pin; breech mechanism lever with nut, and keep pin; breech mechanism lever latch with retaining catch, and spiral spring; safety catch and spiral spring; obturator cup retaining catch with spindle, and spiral spring; and socket for striker ..	1
Striker .. .. .	Steel, needle with main and re- bound springs, sleeve, retaining nut, and sheath .. .. .	1

*Separate stores.*

Band, lifting, breech screw, B.L. 9·45-inch howitzer ..	Leather, with strap .. ..	1
Brush, vent, B.L. 9·45-inch howitzer .. .. .	.. .. .	2
Driver, screw .. .. .	} Steel .. .. . {	1
Wrench, striker .. .. .		1



(Woolwich Section, No. 15.)

Carriage, siege, B.L.,		
9.45-inch howitzer,		
Mark I. ....	....	L

The carriage consists of the following principal parts:—

Cradle.  
 Carriage body.  
 Traversing gear.  
 Elevating gear.  
 Sighting gear.  
 Loading tray.  
 Bed.

The carriage is constructed to allow of firing at angles of elevation from 42 degrees to 63 degrees, but will admit of the howitzer being placed in the horizontal position for loading. The howitzer recoils axially in a cradle, the latter being fitted with a hydraulic buffer to limit the recoil, and with running-out springs to return the howitzer to the firing position.

The carriage body consists of a steel casting with trunnion holes for the trunnions of the cradle. It is pivoted at the front, and is fitted with metal surfaces where it rests on the bed.

The traversing gear is fitted to the rear, and permits of a traverse of 8 degrees on either side of the centre line.

The elevating gear is actuated by a cranked handle on the left side, and a loading tray is pivoted to the right side.

The sighting gear consists principally of a removable sight bar with fore and hind sights attached to the left side of the cradle. The sight is available for laying for line only.

The bed is a rectangular framework of wood and steel; it is fitted with two bearing brackets for the carriage to rest on, screwed holes for lifting screws, and three guides on each side for pickets to secure the bed to the ground.

For transporting purposes, the cradle and howitzer form one load, and are supported on each side by a wheel and a cranked axle (which is fixed to each trunnion of the cradle), and at the front by a removable trail secured to the axle of a limber. The bed and carriage body form a second load, which is supported by a pair of wheels on an axle keyed to the front of the bed, and by a removable trail secured to the axle of a limber.

Limber, siege, B.L., 9.45-		
inch howitzer, Mark I.	....	L

The limbers are similar in construction, consisting of a simple framework of angle steel with axletree and wheels, and arranged for pole draught.



895

*Dimensions, weights, &c.*

	feet.	inches.
Height of trunnion axis above bed	3	9½
Track (maximum)	6	4
Width (maximum)	7	4
degrees.		
Angle of lock (maximum)	140	
tons cwt. qr.		
Weight of carriage body, and bed, &c. (for transporting)	4	8 0
Weight of howitzer, and cradle, &c. (for transporting)	4	3 0
Weight of limber	0	10 1

## (Woolwich Section, No. 24.)

Cartridge, B.L., 9·45-inch howitzer, 4-lb. 15½-oz., powder. (Mark I.)	... L	Silk cloth; maximum charge—6 portions in paper cup.
---	-------	---

Cartridges of this description (of which no more will be made) consist of smokeless powder (nitro-glycerine and collodion in flat grains coated with graphite).

The maximum charge is made up in six portions, viz. :—

Four portions of 1·1 lb. of powder enclosed in a flat circular silk bag, each primed in the centre with 10 grammes of rifle powder.

Two portions of ·275 lb. of powder enclosed in a flat ¼ circular bag, and unprimed.

Each complete charge is attached to a paper cup by two silk tapes, and when required for use is placed in the obturating cup of the howitzer.

Shell, B.L., common, lyddite, 9·45-inch howitzer. (Mark I.)	... L	Forged steel.
---	-------	---------------

The shell is made of forged steel, has a solid base, and is fitted in the nose with a gunmetal socket, screwed to the G.S. fuze hole gauge.

The ribs in the groove for driving band are "waved."

The "Exploder, lyddite shell, 4½-oz., with primer" (§§ 10504, 11023), is used with this shell.

(484)

B

10th Jan. 1903.

12th Oct. 1903.

7842

332



896

*Dimensions, &c.*

	inches.
Length (maximum) ....	28·646
Diameter over body (maximum) ....	9·415
Diameter over driving band (maximum) ....	9·605
Weight of { shell, empty (including	lb. oz.
driving band) ....	226 4
bursting charge ....	53 2
fuze (D.A. Impact) ..	0 10
Average total weight filled and fuzed ....	280 0

Shell, B.L., filled, common,  
pointed, 9·45 inch  
howitzer. (Mark I) .... L Steel.

This shell is made of steel with a removable base, screwed in the centre to take either a special plug, or the "Fuze, percussion base, B.L. 9·45-inch howitzer, Mark I."

The charge is composed of compressed ammonium powder, made up in two parts. Each part has a hole through the centre to take a burster of F.G. powder, enclosed in a muslin bag. Each part is wrapped round with thin paper, then covered with tin foil, and both enclosed in a calico bag, the mouth of which is drawn up.

*Dimensions, &c.*

	inches.
Length of shell ....	28·4
Diameter of body of shell ....	9·35
Diameter over band ....	9·55
	lb. oz.
Weight, empty (approximate) ....	246 14
Weight of bursting charge (approximate) ....	33 1

(Woolwich Section, No. 22.)

Fuze, percussion, base,  
B.L., 9·45-inch how-  
itzer. (Mark I) .... L Metal.



897

The fuze comprises the following parts :—

- |  |                  |
|--|------------------|
| (1.) Body, with lead washer.   | 9th Feb. 1904.   |
|  | 75               |
| (2.) Screwed cap containing magazine.  | 7                |
|  | 8177             |
| (3.) Screwed plug containing detonator and anvil.  | 26th March 1904. |
|  | .                |
| (4.) A smaller screwed plug, and a lead washer for the plug to rest on.                              | 8209             |
| (5.) Brass needle plug, with steel needle and copper cap with four clips.                            |                  |
| (6.) Brass thimble.  |                  |
| (7.) Copper retaining ring, with three clips to prevent the needle plug flying forward until impact. |                  |
| (8.) Brass cylinder, which fits loosely over (5) and centres the needle to the detonator.            |                  |

The action of the fuze is as follows :—

On shock of discharge, the brass thimble sets back, straightening the four clips of the copper cap over the needle and so unmasks the latter.

On impact, the needle plug straightening the three clips at the bottom of the copper retaining ring—together with the thimble—flies forward, firing the detonator.

(Woolwich Section, No 24.)

Primer, percussion, B.L.,	L
9.45-inch howitzer.	
(Mark I.) ....	

The body of the primer is made of metal, screwed externally to fit the stem (or "stalk") of the obturating cup of the howitzer. It is bored out to take a percussion cap filled with 0.2 grains of cap composition, over which is screwed a metal anvil.

The bottom of the primer is filled with hard pressed powder, and closed by means of a varnished foolscap paper disc.

Three recesses are cut in the head of the primer for the use of the "Key, percussion primer."

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B 2



(Woolwich Section, No. 22.)

Implements, fuze, shell,  
and cartridge—

Key, base fuze and  
plug, B.L., 9.45-  
inch howitzer.  
(Mark I.) ... ..

L Steel.

Key, percussion  
primer, B.L., 9.45-  
inch howitzer.  
(Mark I.) ... ..

L Steel.

The above-mentioned keys are for use with the base fuze and  
plug of the common pointed shell, and the percussion primer,  
respectively.

12356.—Brush, sponge, Q.F.,  
6-pr. guns. (Mark I.)

C Without rod.

Rods, brush, sponge,  
Q.F.—

Wood; with gunmetal  
connections, nut, and  
keep pin.

Hotchkiss and  
Nordenfelt 6-pr.  
guns. (Mark I.)..

C Length, 8 feet 6 inches.

Elswick and Vickers  
6-pr. guns. (Mark  
I.) .. ..

N Length, 10 feet 6 inches.

Extended use.  
Nomenclature.

Ordnance, Q.F., Hotch-  
kiss, 6-pr.—

Brush, sponge ..

C

Rod, brush, sponge

C

No more to be provided.

24th May 1904.

73

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4677

The use of the "Brush, sponge," and "Rod, brush, sponge,"  
for 6-pr. Q.F. Nordenfelt guns (§ 5009) has been extended to all  
6-pr. guns, and will, in future, be known under the above nomen-  
clature. The rods for the Hotchkiss and Nordenfelt guns, and  
Elswick and Vickers guns, respectively, differ only from each  
other in length, which is as indicated in the details appended to  
nomenclature.

No more of the "brushes, sponge," and rods, for 6-pr. Q.F.  
Hotchkiss guns (§ 5008) will be made, and so soon as the existing  
stock is used up, they will become obsolete.



899

(WOOLWICH SECTIONS, NOS. 16 AND 17.)

12357.—Gauge, striker, protrusion—

No. 3. (Mark I.) .. C

Steel; B.L. and B.L.C. gun locks; and 1-inch Elswick, A and B, and 1-inch Morris B.L. aiming rifles.

Ordnance, B.L.:—

16'25-inch—

Lock, electric .. N

13'5-inch—

Lock, electric .. N

12-inch, Marks III. to V.W.—

Lock, electric .. N

12-inch, wire, Mark VIII.—

Locks { electric .. N

{ percussion N

9'2-inch, wire, Marks VIII. and IX.—

Locks { electric .. C

{ percussion C

8-inch, Marks III. to VI.—

Lock, electric .. N

Locks, electric, C or C<sup>1</sup> C

1. Locks of future manufacture to give mean protrusion of '08 inch.

2. Existing locks to be altered to give mean protrusion of '08 inch.

Ordnance, B.L.:—

12-inch, wire, Mark VIII.—

Lock, percussion .. N

9'2-inch, wire, Marks VIII. and IX.—

Lock, percussion .. C

1 in, firing, locks, percussion, 12-inch, Mark VIII., and

9'2-inch, Marks VIII. and IX. .. C

Nomenclature.

A pattern of the above-mentioned No. 3 gauge has been approved to govern manufacture.

(484)

B 3

31st July 1903.

73

4

4463

24th June 1903.

22nd Sept. 1903.

30th Oct. 1903.

25th Feb. 1904.

73

3

4534

13th Nov. 1903.

.

4746

26th May 1904.

N.O.

14769



## 900

The gauge is made of flat steel plate, and is for gauging the protrusion of the upper contact punch or firing pin of the needle or striker in electric or percussion locks for B.L. and B.L.C. guns, and the needle or striker in 1-inch Elswick A and B, and 1-inch Morris B.L. aiming rifles. It differs from Nos. 1 and 2 gauges (§ 11740) in having separate recesses for maximum and minimum gauging, and in the depth of the recesses, which are as follows:—

Maximum ... .09 inch.      Minimum ... .07 inch.

*Instructions for use of gauge.*

*Gun locks.*

Remove the lock from the gun, and force the upper contact, needle, or striker through the firing hole as far as it will go. The gauge will then be applied to the front face of the lock.

*Aiming rifles.*

1-inch Elswick, "A."—Remove the breech block, and push the striker forward as far as it will go. The gauge will then be applied to the front face of the breech block.

1-inch Elswick, "B."—Open the breech, and swing the breech screw and carrier into the loading position; release the retaining catch of the breech screw by hand; turn the breech screw into the locked position, and fold down the cam lever. The gauge will then be applied to the front face of the breech screw. (In the case of the Mark II. rifle, the striker must be in the uncocked position.)

1-inch Morris, B.L.—Open the breech of the gun, and place the electric or percussion needles, respectively, in position in the axial vent, and in the case of the percussion needle, force the needle through the dummy tube as far as it will go. The gauge will then be applied to the front end of the axial vent.

The above-mentioned No. 3 gauge will, for Land Service, be issued to officers concerned on demand in the proportion of 1 per gun, except for drill and practice guns, in which case the proportion will be 1 per group.

In future manufacture, all electric and percussion locks for B.L. and B.L.C. guns, and 1-inch aiming rifles of the above-mentioned description, will be arranged to admit mean protrusion of .08 inch of the needle, upper contact, or striker.



901

Existing electric and percussion locks for B.L. guns and 1-inch aiming rifles, shown above, will be altered where necessary to give mean protrusion of needle, upper contact, or striker, locally, and on board H.M. ships as shown below:—

Designation.	Method of adjustment.
Ordnance, B.L. :—	
13·5-inch—	Longer contact punches for upper contact must be demanded, and on receipt, substituted for the existing punches in the locks (and auxiliary circuit connections in Naval Service).
Lock, electric .. ..	
12-inch, wire, Mark VIII.—	
Lock, electric .. ..	
9·2-inch, wire, Marks VIII. and IX.—	In accordance with the under-mentioned instructional prints, and gauge, which will be supplied to officers concerned on demand.
Lock, electric .. ..	
16·25-inch—	
Lock, electric .. ..	
12-inch, Marks III. to V. <sup>w</sup> —	
Lock, electric .. ..	
12-inch, wire, Mark VIII.—	
Lock, percussion .. ..	
9·2-inch, wire, Marks VIII. and IX.—	
Lock, percussion .. ..	
8-inch, Marks III. to VI.—	
Lock, electric .. ..	
Locks, electric, C or C <sup>1</sup> ..	
Rifle, aiming, 1-inch, Elswick, "B," Mark I.—	
Striker.. ..	

*Instructional prints (as required).*

Ordnance, B.L.—	R.G.F.
16·25-inch and 12-inch, Marks III. to V. <sup>w</sup> ....	10285A/4
12-inch, wire, Mark VIII.; and 9·2-inch, wire, Marks VIII. and IX. ....	10850/17
8-inch, Marks III. to VI. ....	9569/5
Locks, electric, C or C <sup>1</sup> ....	9655C/5
Rifle, aiming, 1-inch, Elswick, "B," Mark I. ....	10981/54
(481)	B 4

902

*Gauges (as required).*

Ordnance, B.L.—

12-inch, wire, Mark VIII. ; and 9·2-inch, wire,	No.
Marks VIII. and IX. ....	1†

† For percussion locks.

## (WOOLWICH SECTION, No. 16.)

12358.—Guns, machine, '303-  
inch and '303-inch,  
converted—

Protector, muzzle .. L For guiding full-through.

17th Aug. 1904.

54

Machine guns

701.

The muzzle protector introduced in § 12238 will be supplied  
for existing guns, and demands should be submitted accordingly.

12359.—Ordnance, Q.F.—

6-inch B, and Q.F.C.

6-inch—

Lever, breech  
mechanism .. C4·7-inch B, and 4-inch  
Mark III.—Lever, breech  
mechanism .. C

12-pr.—

Lever, breech  
mechanism .. C

Holes for axis pin, and actuating link, to  
be bushed.

8th March 1904.

25th May 1904.

73

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4690

With reference to §§ 8261, 8269, 8270, 8094, 10499, 7724,  
7747 :—In future manufacture, breech mechanism levers of  
the above-mentioned descriptions will have the holes for the  
reception of the axis pin, and actuating link, fitted with steel  
bushes.

Existing breech mechanism levers will be fitted with the  
steel bushes, as may be found necessary, in accordance with  
instructional prints detailed below, which, with the under-  
mentioned stores and tools, will be supplied to officers concerned  
on demand, as follows :—



		Ordnance, Q.F.		
		6-inch B, and Q.F.C. 6-inch.	4·7-inch B, and 4-inch Mark III.	12-pr.
<i>Instructional prints (as required).</i>				
Instructional prints	.. ..	R.G.F. 10918 34	R.G.F. 10850 96	R.G.F. 10864 64
<i>Stores per lever.</i>				
Bushes—				
Link, actuating breech screw—steel..		1	1	1
Axis pin—steel.. .. .		1	1	1
<i>Tools (as required). Land Service only.</i>				
Taps (set of 3)—		set.	set.	set.
2·2 inches diameter, 10 threads per inch .. .. .		1	..	..
1·75 inches diameter, 12 threads per inch .. .. .		..	1	..
1·375 inches diameter, 12 threads per inch .. .. .		1	..	1
1·25 inches diameter, 12 threads per inch .. .. .		..	1	..
·95 inch diameter, 18 threads per inch .. .. .		..	..	1
12360.—Ordnance, Q.F.:—				
6-inch B, and Q.F.C.				
6-inch—				
Striker, E. and P.		C		
4·7-inch B, and 4-inch Mark III.—				
Striker, E. and P.		C		
12-pr. 12 and 8 cwt.—				
Striker, E. and P.		C		
12-pr. 18 cwt.—				
Striker, E. and P.		N		
Nut for sheath secured by keep pin.				
Nomenclature.				
With reference to §§ 9799, 12005, 12219:—In future manu-				

facture of strikers of the above-mentioned description, the nut for sheath will be prevented from turning (after being tightened up in position) by means of a split keep pin which will be inserted through the nut and a portion of the sheath.

Existing strikers (component and spare) in Land Service will be altered as described above, locally, in accordance with the instructional print mentioned below, which, together with the keep pins, will be supplied to officers concerned on demand.

*Instructional print and keep pins.*

R.G.F./10887/14 .... As required.

Pins, keep, split,  $\frac{5}{64}$  inch by  $1\frac{1}{4}$  inches,  
steel ... 1 per striker.

Existing strikers for Q.F. 6-inch B, and Q.F.C. 6-inch; 4.7-inch B, and 4-inch Mark III., and 12-pr. 12 and 8-cwt. guns in Naval Service have all been altered in accordance with Admiralty circular letter, G 10082/02. Strikers for Q.F. 12-pr. 18-cwt. guns will be altered as described above, before issue.

Consequent on the above alteration, the details appended to the nomenclature of the strikers will be amended as shown below:—

Ordnance, Q.F.—

6-inch B, and Q.F.C. 6-inch —

Striker, E. and P. (Marks  
I.\* and II.) ....

C

Steel; consisting of  
needle in 2 parts, with  
insulator, keep screw,  
short firing pin, and  
2 nuts; insulating  
bush in 4 parts;  
sheath; main spring;  
3 washers (2 leather  
and 1 vulcanized  
fibre); nut for sheath  
with keep pin; head;  
retaining nut; and  
trigger in 2 parts with  
spring, keep pin, and  
cap.



905

Ordinance, Q.F.—

4·7-inch B, and 4-inch Mark

III.—

Striker, E. and P. (Marks

I.\* and II.) ....

C

Steel ; consisting of  
 needle in 2 parts, with  
 insulator, keep screw,  
 short firing pin, and  
 2 nuts ; insulating  
 bush in 3 parts ;  
 sheath ; main spring ;  
 3 washers (2 leather  
 and 1 vulcanized  
 fibre) ; nut for sheath  
 with keep pin ; head ;  
 retaining nut ; and  
 trigger in 2 parts with  
 spring, keep pin, and  
 cap.

12-pr. 12 and 8 cwt.—

Striker, E. and P. (Marks

I.\* and II.) ....

C

Steel ; consisting of  
 needle in 2 parts,  
 with insulator, keep  
 screw, short firing  
 pin and 2 nuts ;  
 insulating bush in  
 2 parts ; sheath ;  
 main spring ; 3  
 washers (2 leather  
 and 1 vulcanized  
 fibre) ; nut for sheath  
 with keep pin ;  
 head ; retaining nut ;  
 and trigger in 2 parts  
 with spring, keep  
 pin, and cap.

12-pr. 18 cwt.—

Striker, E. and P. (Mark

I.) ....

N

12361.- Ordinance, Q.F., 4·7-inch

B, Marks I. to IV.\* ..

C

Additional plane for clinometer.

In future manufacture, Q.F. 4·7-inch B, Marks I. to IV.\* guns will have an additional plane for clinometer prepared on the upper side of the jacket immediately in front of the breech ring, as described for existing guns on travelling carriages in § 12288.

27. h June 1904.

73

4

4846



## 12362.—Ordnance, Q.F., Hotch-

kiss —

6-pr. .. .. C

3-pr. .. .. C

1. Local adjustment of firing hammers to ensure firing pins striking centrally.

2. Worn firing hammers to be exchanged.

11th Nov. 1903.

15th Feb. 1904.

57

Isle of Wight

2291

With reference to §§ 5008, 5134, 6283, 6555, and 10702:—  
In order to obviate the liability of missfires with the above-mentioned guns, the firing hammers and firing pins will be frequently examined to see that the latter is central in the firing hole of the wedge plate bush.

1. When the firing pin is found to be touching the edge of the firing hole in the bush, its position will be adjusted by hammering up either the top or bottom edges of the dovetail recess in the firing hammer (by means of which the firing pin is attached), and easing off the opposite edge with a file, so as to restore the firing pin to a central position in the firing hole of the plate wedge bush.

2. Such firing hammers as are found to be very slack on the rocking shaft should be exchanged.

(WOOLWICH SECTION, No. 17.)

## 12363.—Ordnance, B.L. and

B.L.C.—

Box, slide, "A."

(Marks I.\* &amp; II.).. C

Ordnance, B.L.—

12-inch, wire, Mark

IX.—

Link, actuating

lock .. .. N

9'2-inch, wire, Marks

X. &amp; X.V—

Link, actuating

lock .. .. C

2nd Jan. 1904.

5th April 1904.

73

3

3588

14th April 1904.

5094

28th May 1904.

N.O.

14943

1. Stop piece for lock fitted to existing "Boxes, slide, 'A'."

2. Adjustable bush, and locking plate with fixing screw, fitted to "Links, actuating lock."

3. Nomenclature of "Links, actuating lock."

In future manufacture, "Boxes, slide, 'A'," and "Links,



actuating lock," for B.L. 12-inch wire Mark IX., and 9.2-inch wire Marks X. and X.V guns, respectively, will be modified so as to facilitate adjustment of horizontal eccentricity in the gun lock, as follows :—

The modification to the "Box, slide, 'A'," consists in arranging the closed end of the box slide, so as to form a stop for the lock when closing the breech.

Existing "Boxes, slide, 'A'," when modified will be described as "Mark I.\*" and will be so stamped. New "Boxes, slide, 'A'," will be known as "Mark II."

The modification to the "Links, actuating lock," is the same for B.L. 12-inch wire Mark IX., and 9.2-inch wire Marks X. and X.V guns, and consists of the insertion of a steel adjustable bush, prepared for the reception of the guide bolt, into the link. The bush is eccentric, and is retained in the link by means of a bayonet joint. It is prevented from turning when in position by means of serrations round the outer edge, and a locking plate, which is fitted to the link. Graduations, representing .01 inch horizontal movement, are engraved on the bush, and a corresponding indicating arrow on the locking plate, to facilitate adjustment.

The guide bolt of the modified link is free to turn in the bush.

Existing "Boxes, slide, 'A'," and "Links, actuating lock," for B.L. 12-inch wire Mark IX., and 9.2-inch wire Marks X. and X.V guns, respectively, will be modified as indicated below, for which purpose the undermentioned instructional prints, stores, and tools, will be supplied to officers concerned on demand :—

*Land Service.*—"Boxes, slide, 'A'."—Locally, by Army Ordnance Department.

"Links, actuating lock" (component and spare), belonging to the guns, will be returned to Woolwich for alteration, in accordance with instructions issued by the Principal Ordnance Officer.

*Naval Service.*—Locally, where the requisite machinery exists. (*Vide* Admiralty letter, dated 3rd August, 1904. G 10442/04.)



908

		Ordnance, B.L.	
		12-inch, wire, Mark IX.	9·2-inch, wire, Marks X. & X.v
		R.G.F. 10809 102	R.G.F. 10768B 128
Instructional prints (as required) {			
<i>Stores and tools.</i>			
Adjustable bush, with locking plate and fixing screw .. .. .		1 per gun.	1 per gun.
Stop piece for "Box, slide, 'A'"; with two screw rivets .. .. .		1 per "Box, slide, 'A'."	
Drilling jig for "Box, slide, 'A'"; with two drills .. .. .		1 per district (Land Service only).	

Consequent on the above modification, the details appended to the nomenclature of the "Links, actuating lock," will be altered as shown below:—

Ordnance, B.L.:—

12-inch, wire, Mark IX.—

Link, actuating lock....

N

9·2-inch, wire, Marks X.  
and X.v—

Link, actuating lock ...

C

Steel, with adjustable bush,  
locking plate and fixing  
screw, and guide bolt in  
two parts with keep pin  
and spiral spring.

12364.— Ordnance, B.L. and  
B.L.C.—

Obturators .. .. C

Weight of pads.

21st July 1904.

73

3

5287

In continuation of § 10350:—The following particulars of the minimum and maximum weights of obturator pads (for purposes of exchange as described in § 9713) for guns with "steep coned" obturators, are published for the information of all concerned:—

Nature.	Weight.	
	Minimum.	Maximum.
Pads, obturator:—		
B.L.—	lb. oz. drs.	lb. oz. drs.
7·5-inch .. .. .	3 4 4	3 5 12
6-inch, Marks VII. to VIII. guns. (Mark II.) .. .. .	1 12 0	1 13 0
B.L.C.—		
5-inch .. .. .	0 15 14	1 0 10



909

## (WOOLWICH SECTION, No. 18.)

## 12365.—Canvas, packing, Hessian—

72 inches.

48 inches.

For packing and for  
Rifle Ranges

## 1. Nomenclature.

## Canvas, packing, Hessian—

47 inches.

45 inches.

36 inches.

## 2. To become obsolete.

1. The nomenclature and detail of the "Canvas, Hessian, 72 and 48-inch," on page 939 of Priced Vocabulary of Stores, has been amended to read as above.

4th Aug. 1904.

57

24

5471

2. No more packing canvas of these dimensions will be obtained, and when present stock is exhausted it will become obsolete.

## 12366.—Cap, sponge, No. 12.

(Mark I.) .. ..

C

Waterproof canvas;  
17½ inches by 16 inches,  
B.L., 9·2-inch bore, and  
R.M.L., 10-inch; also  
combined brush,  
rammer, and sponge,  
B.L., 7·5-inch chamber.

## Extended use.

## Nomenclature.

The use of the above-mentioned sponge cap (§ 6995) having been extended to the B.L. 7·5-inch combined brush, rammer, and sponge, the details appended to nomenclature have been amended accordingly as shown above.

2nd July 1904.

73

3

5206

## 12367.—Rope, drag, light, 14 feet

6 inches. (Mark I.) ..

L

2½-inch white rope, with  
2 hooks, and chain;  
Carriages, field,  
machine gun, Infantry  
and Cavalry; also Q.F.,  
2·95-inch and 1-pr.

## Extended use.

## Nomenclature.

The use of the above-mentioned drag rope (§§ 6657, 11057)

10th July 1904

54

Gen. No.

9537



having been extended to Q.F. 1-pr. carriages, the details appended to nomenclature have been amended accordingly as shown above.

The existing stock of special drag ropes for 1-pr. Q.F. carriages will be used up with those carriages.

12368.—Twine, whipping, coarse. | Also for seizin g.  
Obsolete.

8th July 1904.

57

Gen. No.

5668

The above-mentioned twine (§ 5522) will become obsolete for future manufacture. Existing stock will, however, be used up, and may be issued in lieu of "fine."

(WOOLWICH SECTION, No. 20.)

12369.—Cartridge, R.M.L., filled,  
silk cloth, 10-inch,  
70-lb. P. (Mark I.) .. C | Full.

Full charge (70 lb.) to be used with 10-inch guns with paper shot.

Cartridge, R.M.L., filled,  
silk cloth, 12.5-inch,  
50-lb. E.X.E. (Mark I.) .. C

With disc,  $\frac{1}{4}$  charge, full,  
Mark II. gun;  $\frac{1}{2}$  charge,  
reduced, Mark I. gun.

$\frac{3}{4}$  charges (150 lb.) to be used with 12.5-inch Mark II. guns with paper shot.

Cartridges, R.M.L.:—

Filled, silk cloth—

12.5-inch, 82½-lb.—

Prism.<sup>1</sup> black.

(Mark I.) .. L

}  $\frac{1}{2}$  charges, full, Mark I.  
gun.

Prism.<sup>2</sup> (Mark I.)

L

Empty, silk cloth—

12.5-inch, 41½-lb.—

Prism.<sup>1</sup> black .. L

}  $\frac{1}{4}$  charges, full, Mark I.  
gun.

Prism.<sup>2</sup> .. L

$\frac{3}{4}$  charges (123½ lb.) to be used with 12.5-inch Mark I. guns with paper shot.

82½-lb. half charges to be reduced to 41½-lb. quarter charges, locally, as required.

9th May 1903.

31st July 1903.

22nd Sept. 1903.

57

Isle of Wight

2274

The above-mentioned charges having been approved for use



with paper shot in Land Service, the following particulars are published for the information of all concerned :—

For R.M.L. 10-inch guns (the carriage buffers of which have not been altered) the full charge of 70 lb. P. powder (§ 3848) will be used with paper shot.

For R.M.L. 12.5-inch guns (the buffers of which are set for cordite charges) the following  $\frac{3}{4}$  powder charges will be used with paper shot :—

Mark II. guns.—150 lb. E.X E., viz, three 50-lb. quarter Service charges (§ 6090).

Mark I. guns.—123 $\frac{3}{4}$  lb. Prism.<sup>1</sup> black, or Prism.<sup>2</sup>, viz., one 82 $\frac{1}{2}$  - lb. half Service charge (§§ 5486, 5713), and one 41 $\frac{1}{4}$ -lb. quarter charge (reduced from 82 $\frac{1}{2}$ -lb. half charges, as mentioned below)—

As there are no  $\frac{1}{4}$  charges for 12.5-inch Mark I. guns, the 82 $\frac{1}{2}$ -lb. half charges will be reduced to 41 $\frac{1}{4}$ -lb. quarter charges locally, as may be required, in accordance with the instructions detailed below.

Patterns of the 41 $\frac{1}{4}$ -lb. empty cartridges have accordingly been sealed to govern manufacture, and officers concerned must demand the required number of these empty cartridges in order to utilize the *surplus* powder resulting from the reduction of the 82 $\frac{1}{2}$ -lb. charges (the existing 82 $\frac{1}{2}$ -lb. bag being used for one half of the powder, and the new 41 $\frac{1}{4}$ -lb. bag for the other).

*Instructions for reducing R.M.L. 12.5-inch 82 $\frac{1}{2}$ -lb.*

*Prism.<sup>1</sup> black, and Prism.<sup>2</sup>, charges to 41 $\frac{1}{4}$ -lb. charges.*

- (1.) The work will be carried out as a Laboratory operation.
- (2.) Remove the top of the bag by cutting the silk sewing (by which it is secured) with a metal knife or metal scissors.
- (3.) R.M.L. 12.5-inch 82 $\frac{1}{2}$ -lb. Prism.<sup>1</sup> black charges.—Remove half the amount of powder, leaving nine layers of 44 prisms each, and one layer of 33 prisms, or as many as will make up the weight to 41 $\frac{1}{4}$  lb. The top layer must not contain less than 75 per cent. of the number of prisms in a complete layer. If necessary, one or more prisms will be removed from the side of each complete layer to bring up to the requisite number; this can be done by lifting the prisms with a small stick through the perforations.



R.M.L. 12·5-inch 82½-lb. Prism.<sup>2</sup> charges — Remove the four top layers, and as many of the fifth layer as necessary, to reduce the weight to 41¼ lb.; then remove one complete column from any one corner and place upon the top layer, which must not contain less than 75 per cent. of the number of prisms in a complete layer.

(4) Cut off superfluous bag to within about 1 inch of the powder, turn in the bag level with the powder, and sew on the top of the bag again with "Silk, sewing, No. 1" (two strands), and "Needle, magazine, 1¾-inch."

(5.) Re-mark the bag with "luk, printers', black," as necessary.

(6.) The produce powder from each ½ charge could be made up as above, if required, using new bags.

*Dimensions.*

	Length (actual).	Diameter (not to exceed).
Cartridges, R.M.L., 12·5-inch, 41¼-lb.—	inches.	inches.
Prism. <sup>1</sup> black .. ..	10·1	12·25
Prism. <sup>2</sup> .. ..	10·25	12·25

(WOOLWICH SECTION, No. 22.)

12370.— Rockets —

Stick, 4 feet 2 inches.

(Mark I.) .. .. C ½ lb., blue, green, red,  
light, and sound, Mark  
II.

Extended use and nomenclature.

Stick, 5 feet 6 inches | C |

No more to be made.

No more of the above-mentioned 5-ft. 6-inch rocket sticks

16th May 1904

75

10

1319



(§ 3329) will be made, and as soon as the existing stock is used up, that pattern will be regarded as obsolete, and the 4-ft. 2-inch stick (§ 7486) will be used in lieu with  $\frac{1}{2}$ -lb. light, and Mark II. sound, rockets.

Consequent on this decision, the details appended to nomenclature of the 4-ft. 2-inch stick have been altered as shown above.

(WOOLWICH SECTION, No. 22A.)

12371.—Cartridges, Q.F., saluting:—

12-pr. 12-cwt., filled,  
Mark II.—

With primer .. C

With adapter .. C

Brass, 1 $\frac{1}{2}$ -lb. blank L.G.,  
in silk cloth bag, with  
felt wad, leatherboard  
cup, and igniter.

12-pr. 8-cwt., filled,  
Mark I.—

With primer .. N

With adapter .. N

Brass, 1 $\frac{1}{2}$ -lb. blank L.G.,  
in silk cloth bag, with  
jacket, felt wad, and  
igniter.

Nomenclature.

With reference to § 12152:—The nomenclature, and details appended thereto, of the above-mentioned Q.F. 12 pr. saluting cartridges, mentioned in § 12250, will now be as shown above.

3rd Sept. 1903.

75

12

3936

## (WOOLWICH SECTION, No. 24.)

12372.—Gauges, shell, B.L. or  
B.L.C., 5-inch gun:—

Band—

High, 5·148 inches.  
(Mark I.) .. C

or shot, ring, wrought  
iron; for gun pro-  
jectiles:— Shrapnel,  
Mark VI.; common  
pointed, Mark II.;  
common lyddite,  
Mark VIII.; solid  
shot, Mark II., and  
armour-piercing shot,  
Mark I.

Low, 5·128 inches.  
(Mark I.) .. C

## 1. New patterns.

Gauges, shell, B.L. or  
B.L.C., 5-inch gun or  
howitzer:—

Body. (Mark I.) .. C

or shot, ring, wrought  
iron.  
4·98 inches.

Band—

High, 5·12 inches.  
(Mark II.) .. C

Except for gun pro-  
jectiles:— Shrapnel,  
Mark VI.; common  
pointed, Mark II.;  
common lyddite,  
Mark VIII.; solid  
shot, Mark II., and  
armour-piercing shot,  
Mark I.

Low, 5·1 inches.  
(Mark II.) .. C

## 2. Nomenclature.

31st Dec. 1903.

57

16

3062

1. Patterns of the above-mentioned gauges, high 5·148 inches, and low 5·128 inches, have been sealed to govern manufacture.

The gauges are for use with the 5-inch B.L. or B.L.C. gun projectiles described in § 12075.

2. Consequent upon the introduction of these new gauges, the nomenclature, and details appended thereto, of the gauges mentioned in §§ 4419, 8056, 8688, have been amended as shown above.



915

12373.—Implements, fuze, shell,  
and cartridge—Holder, shell, for  
laboratories, 8-  
inch. (Mark II.)

C

Also 7.5-inch; wrought  
iron.

Extended use.

Nomenclature.

Consequent upon the above-mentioned holder (§ 7233) being suitable for use with B.L. 7.5-inch shells, the details appended to nomenclature have been altered as shown above.

21st April 1904.

57

Gen. No.

5301

## 12374.—Filters—

6 gallons .. .. Stoneware, with charcoal  
block, lid, and tap.

Blocks, charcoal—

Lids .. .. Teak, 13½ ins. diameter.

Taps .. .. White metal.

. Obsolete.

The above-mentioned filter (§ 4425) is hereby declared obsolete, and any remaining in store will be disposed of locally.

15th March 1904.

57

Malta

3155

(WOOLWICH SECTION, No. 25.)

## 12375.—Lamp, hand, dispensary.

(Mark II.) .. .. With reflector and  
chimney.

A pattern of the above-mentioned lamp has been sealed to govern future supplies.

6th June 1904.

57

Woolwich

2253

It differs from the previous pattern (§ 11667) in the reservoir and base being larger, and the lower part of the reflector fitted with a socket to prevent the light from showing at the back of the lamp.

## 12376.—Pail, slop, Mark III .. | Enamelled, with cover.

A pattern of the above-mentioned pail has been sealed to govern future supplies.

13th Nov. 1903.

57

Gen. No.

4306

It differs from the previous pattern (§ 7933) in being enamelled, instead of japanned, and is similar to the ordinary trade pattern, except that the knob (or handle) of the lid is riveted on.

The enamelled slop pail will also replace the "Pail, I.G., 3 gallons," in operating rooms of military hospitals.



## (WOOLWICH SECTION, No. 26.)

## 12377.—Bedsteads—

Married soldiers, Mark

III... ..

Iron, 6 feet 6 inches  
by 4 feet 6 inches,  
consisting of head,  
foot, and two sides.

Mattress, spring ..

Wire, with two plates.  
one hand hook and  
key.

Hospital, Mark III. .

Iron, 6 feet 6 inches,  
by 3 feet 1 inch, con-  
sisting of head, foot,  
and two sides.

Mattress, spring ..

Wire, with two plates.  
eight bolts and nuts,  
and one hand hook.

## Nomenclature.

11th July 1904.

57

Gen. No.

5523

The nomenclature, and details appended thereto, of the  
above-mentioned bedsteads (§§ 6977 and 11926) have been  
altered to read as now shown, the spring mattress in each case  
being held on charge as a separate article.

## (WOOLWICH SECTION, No. 27.)

## 12378.—Curtains, mosquito—

Married soldiers .. ..

With tapes.

Frame .. ..

Wood, consisting of  
rails, side and end,  
standards, and blocks  
head and feet.

10th June 1904.

57

Bermuda

6078

Patterns of the above-mentioned articles have been sealed to  
govern supplies to married soldiers' quarters where specially  
authorized.

The curtain is intended to fit "under" the frame attached to  
the bedstead.

It is made of mosquito net, strengthened at the top and  
round the bottom with strips of white calico and fitted with  
10 tying tapes.

It is of the following approximate dimensions, viz. :—

						feet.	inches.
Depth	....	....	....	....	....	6	10
Length	....	....	....	....	....	6	6
Width	....	....	....	....	....	3	10
Circumference at bottom....	....	....	....	....	....	28	10



917

The frame consists of four blocks, two for the head and two for the feet (not interchangeable), with brass fittings for attaching them to the married soldiers' bedstead (§ 11926); four standards, all of similar size and shape, with a pin protruding from each end, the bottom pin fitting into the block and the top pin through the side and end rails; two side and two end rails to be placed in position on top of the standards, thus forming a frame to which the curtain is attached when arranged for use.

12373.—Sheet, married soldiers,  
Mark II. .. .. Cotton; 103 inches by  
80 inches.

New pattern.

A pattern of the above-mentioned sheet has been sealed to 26th Feb. 1904.  
govern future manufacture.

It differs from the previous pattern (§ 7771) in dimensions only, being 10 inches narrower.

7327

4817

(WOOLWICH SECTION, No. 28.)

12380.—Apparatus, limelight—  
Pencil. (Mark II.) .. L In glass tube.

Alteration in packing.

Hitherto the above-mentioned pencil (§§ 2589, 4290, 9578) has 21st May 1904.  
been packed in lime in its glass tube; in future they will be  
packed loose in the glass tube.

57

24

5250

12381.—Flag, signal, Army—  
Pole, 5 feet 6 inches.  
(Mark II.) .. .. Fir, for 3-ft. flag.

Pole, 3 feet 6 inches.  
(Mark II.) .. .. Fir, for 3-ft. and 2-ft.  
flags.

Reversion to Mark II.

With reference to § 11408:—No more of the Mark III. 26th Nov. 1903.  
poles will be made. Future manufacture will be to the Mark II.  
pattern, which has, however, been altered by the substitution of  
a stout round crowned staple, for the staple previously used with  
that pattern pole, to facilitate the insertion of the tape.

57

Gen. No.

4772



12382.—Stand, telescope, signalling. (Mark II.) L Tripod.

8th June 1904.

57

Inspectors

2271

A pattern of the above-mentioned stand has been approved as a record of a certain number issued to the Service.

The stand consists, principally, of three legs pivoted to a base plate, and a socket for the telescope.

The legs are of wood, shod with iron shoes at one end and hinged to the base plate at the other.

The base plate is threaded to receive the socket, which consists of a milled nut, ball joint, and telescope holder.

An anchoring hook is screwed into the centre of the base plate, and a wooden block is provided to fit the telescope holder, to prevent it being damaged when not in use.

The stand may be transported by means of a carrying strap (in two parts), which is attached to one of the legs; a leather cap is riveted to each end of the strap to enclose the ends of the stand when closed.

*Dimension and weight.*

Total length of stand with caps .... 2 feet 7½ inches.

Weight .... 5 lb. 3 oz.

(WOOLWICH SECTION, No. 29.)

12383.—Banderol, surveying, 8 feet. (Mark I.) .. L

7th May 1904.

57

Gen. No.

5044

A pattern of the above-mentioned store has been sealed to govern manufacture.

12384.—Boxes, range boards and charts—

Wood, R. A. defences.

Large .. .. L To hold 10 charts.

Small .. .. L To hold 5 charts.

To be fitted with new locks.

27th May 1904.

57

Portsmouth

5811

The present locks of above-mentioned boxes (§ 6993) are not considered suitable, and they will be replaced by lever locks.

Officers having "Boxes" of the above-mentioned description on their charge will put forward demands for two locks, as under, for each box, which, on receipt, will be fitted locally, and the old locks returned to store.

(Woolwich Section, No. 10.)

Locks, drawer, brass, 4-lever, 2½-inch, with two keys.



99

12385.—Range-finder, depression,  
Mark II. —

Telescope, overhead.

(Mark I.) .. .. L

In wood case. For heights  
below 60 feet.

A pattern of this telescope has been sealed to govern future supplies as may be specially authorized.

The telescope is introduced for use with the Mark II. depression range-finder on low site batteries for the purpose of enabling the operator to use the instrument from under cover.

1st May 1904.

73

14

69

920

## NAVAL.

## (SECTION II.)

12386.— Rifle, aiming, 1-inch:—

Elswick, "B"—

Q.F., 12-pr. 18-cwt.  
gun. (Mark I.) ..

N

1-inch steel barrel, front  
and rear adjusting  
frames, breech ring,  
carrier, breech screw,  
striker, sleeve, and  
elbow piece.

4th July 1904.

73

12

1417

Drawings (E.O.C. 72460, 72461, 72915) of the above-mentioned aiming rifle have been sealed to govern manufacture for Naval Service.

The aiming rifle is generally similar to that described in §§ 11179, 11909, from which it differs in having a safety catch fitted to the breech ring so as to prevent the breech screw from being closed until the breech ring has been locked in position on the barrel.

The method of fitting and using the apparatus is as described in §§ 11179, 11909. Engraved on the rear face of the rear adjusting frame is an indicator ring with the words "UP," "START TURNING AND SCREW HOME."

The particulars shown in § 11179, page 738, will also apply to this aiming rifle with the exception that "discs, adjusting, barrel" are not required in this case.

The following is a list of the component parts of the complete aiming rifle, and separate stores:—

*Component parts.*

Designation.	Details.	No.
Rifle, aiming, 1-inch Elswick, "B," Mark I.—		
Ring, breech .. ..	Steel, with retaining catch in two parts with keep pin and spiral spring; safety stop with spiral spring, securing nut, and keep pin, and retaining nut; ex- tractor with axis pin, and keep pin .. .. .	1



921

Designation.	Details.	No.
Rifle, aiming, 1-inch, Elswick, "B," Mark I. ( <i>cont.</i> )		
Screw, breech .. ..	Steel, with cam lever, hinge pin, and keep pin, case, and set screw .. ..	1
Sleeve, withdrawing striker .. ..	Steel .. ..	1
Striker .. ..	Steel, consisting of needle in two parts with keep screw, firing pin, and nut; insulating bush, 2 washers; sheath with nut; and main spring .. ..	1
Rifle, aiming, 1-inch, Elswick, "B"—		
Barrel, 1-inch .. ..	Steel .. ..	1
Carrier .. ..	Steel, with hinge pin, and keep pin, cover plate with fixing screw, and breech screw retain- ing catch with spiral spring ..	1
Elbow-piece .. ..	Gunmetal .. ..	1
Frames, adjusting—		
Front, Q.F., 12-pr. 18-cwt. guns .. ..	Gunmetal, with set screw ..	1
Rear, Q.F., 12-pr. 18-cwt. guns .. ..	Steel, with handles .. ..	1

*Stores to be demanded separately.*

Rifle, aiming, 1-inch, Elswick, "B"—		
Extractor, cartridge, hand .. ..	Steel .. ..	†
Tommy .. ..	Steel .. ..	1
Wrenches—	Steel.	
A .. ..	For breech screw, case or cap, and small screws .. ..	‡
B .. ..	For adjusting frame and all nuts	‡
Rifle, aiming, 1-inch—		
Brush, cleaning .. ..	} .. ..	§
Rod, cleaning .. ..		

† 1 per rifle, and 1 spare to every 6 or less number of aiming  
rifles.

‡ 1 to every 4 or less number of aiming rifles.

§ 1 to every 4 or less number of 1-inch aiming rifles (all natures)  
on board.



## (SECTION IV.)

## 12387.— Shells, B.L. :—

Armour-piercing, with cap, 7·5-inch. (Mark I.) .. ..	N	Steel; for large base fuze.
Shrapnel, 7·5-inch, cast steel. (Mark I.)	N	
Common, lyddite, 7·5-inch. (Mark I.)	N	Forged steel.
Common, pointed, 7·5-inch, cast steel. (Mark I) .. ..	N	For large base fuze.
Shot, solid, B.L., 7·5- inch. (Mark I.) ..	N	Iron; practice.

4th Aug. 1902. Drawings (C.I.W./758, R.L./12794A (1), 12453c, 13279 (1),  
75 and 12831A, respectively) of the above-mentioned projectiles  
12 have been sealed to govern manufacture for Naval Service.

8c24 The driving band at present adopted for all the above pro-  
3rd Dec. 1903. jectiles is of cupro-nickel (to design R.L. 13215), as illustrated  
4102 by the accompanying drawing.

11th Feb. 1904. *Armour-piercing shell.*

4150 The armour-piercing shell is made of steel, screwed in the  
19th May 1904. base to take a large base fuze, and a cap is fixed over the point  
4350 of the shell.

*Shrapnel shell.*

8th March 1904. The shrapnel shell is of the ordinary type, with the bursting  
73 charge in the base.  
3

*Common lyddite shell.*

4th May 1904. The common lyddite shell is made of forged steel, fitted in  
75 the nose with a gunmetal fuze socket screwed to the G.S. fuze  
12 hole gauge.  
4456

*Common pointed shell.*

The common pointed shell is made of cast-steel, and is fitted  
in the base with a steel bush which is screwed to take a "fuze,  
percussion, base, large."

*Solid shot.*

The solid shot is made of cast iron with a pointed head.



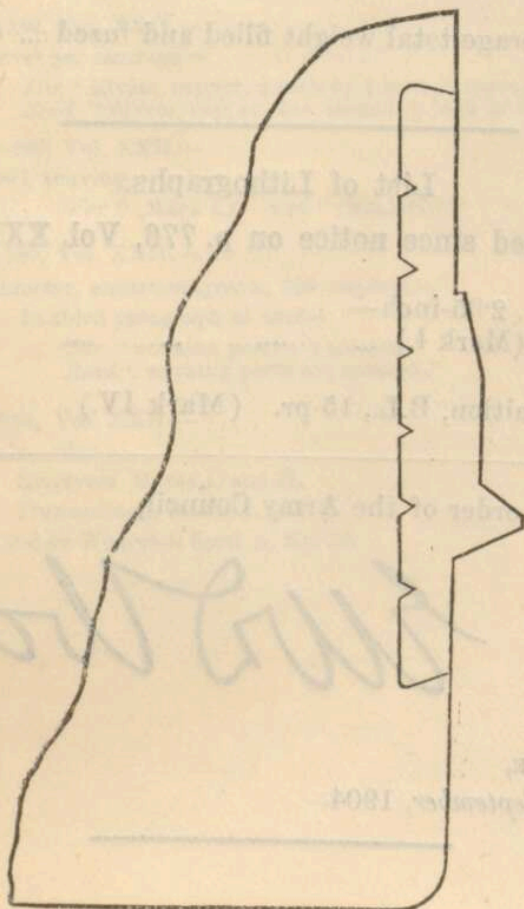
923

*Dimensions, &c.*

	Armour- piercing shell.	Shrapnel shell.	Common lyddite shell.	Common pointed shell.	Solid shot.
	inches.	inches.	inches.	inches.	inches.
Length (not to exceed) .. ..	†	25·4	25·58	27·88	†
Diameter over—					
Body (not to exceed) .. ..	7·465	7·465	7·465	7·465	7·465
Driving band (not to exceed) ..	7·99	7·99	7·99	7·99	7·99
Weight of—					
Shell, including cap, driving band, fuze, and charge .. ..	lb. oz. 200 0	lb. oz. ..	lb. oz. ..	lb. oz. ..	lb. oz. ..
Shell, empty (including driving band) .. ..	..	197 11½	179 15	181 4	..
Bursting charge.. ..	..	0 13	19 7	16 4	..
Fuze .. ..	..	1 7½	0 10	2 8	..
Average total weight .. ..	200 0	200 0	200 0	200 0	200 0

† Left to the contractor.

Driving band, design No. 13215.

*Full size.*

924

12388.—Shell, B.L., common,  
12 inch, heavy, cast-  
steel. (Mark I.) .. N 850 lb.; for wire guns.

3rd Feb. 1904.

75

12

3394

A drawing (R.L. No. 12555A (1)) of the above-mentioned shell has been sealed to govern manufacture, if required, for Naval Service.

The shell is made of cast steel, and is fitted in the nose with a gunmetal adapter (which is screwed to receive the T. and P. No. 62 fuze), and in the base with a steel plug. The gascheck driving band is that described in § 10187.

*Dimensions, &c.*

	inches.
Length (not to exceed) ....	45.15
Diameter over body (not to exceed) ..	11.965
Diameter over driving band (not to exceed)	12.76

	lb.	oz.
Weight of { shell, empty (including driving band) ....	775	9
{ bursting charge (P. & F.G.) ....	73	0
{ fuze (T. & P., No. 62) ....	1	7

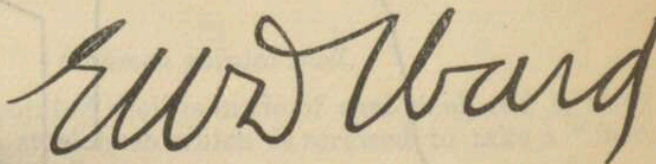
Average total weight filled and fuzeed .... 850 0

*List of Lithographs.*

(Issued since notice on p. 776, Vol. XXII.)

	No. of Plate.
Cartridge, Q.F., 2.95-inch—	{ R.L.
Shell, star. (Mark I.) ....	{ 324
Wagon, ammunition, B.L., 15-pr. (Mark IV.)	{ R.C.D.
	{ 282

By order of the Army Council,



WAR OFFICE,

1st September, 1904.



ERRATA.

- § 11338. Page 876, Vol. XXI.—  
Spanners, platelayers', straight,  $\frac{3}{4}$  inch—  
Detail column—  
*For* " $1\frac{5}{16}$  inches across flats," *read* " $1\frac{3}{8}$  inches across flats."
- § 12189. Page 736, Vol. XXII.—  
Details appended to nomenclature—  
Tent, telegraph, Mark I.—  
*For* "4 large and 48 small wood pins."  
*Read* "6 large and 44 small wood pins."  
Pole, upright, Mark I.—  
*For* "8 feet" *read* "8 feet  $4\frac{1}{2}$  inches."
- § 12237. Page 792, Vol. XXII.—  
Stores per carriage—  
*For* "Rivets, copper,  $\frac{1}{4}$  inch by  $\frac{3}{4}$  inch (1 spare)."  
*Read* "Rivets, copper, flat, tinned  $\frac{3}{16}$  inch by 1 inch (1 spare)."
- § 12254. Page 806, Vol. XXII.—  
Bowl, shaving—  
*For* "(Mark I.)," *read* "(Mark II.)."
- § 12308. Page 852, Vol. XXII.—  
Ammeter, electro-magnetic, 250 ampères—  
In third paragraph of text—  
*For* "working parts are secured."  
*Read* "working parts are covered."
- § 12322. Page 858, Vol. XXII.—  
Dials, order—  
Receivers, Marks I. and II.  
Transmitters, Marks I. and II.  
Should be Woolwich Section, No. 28.

